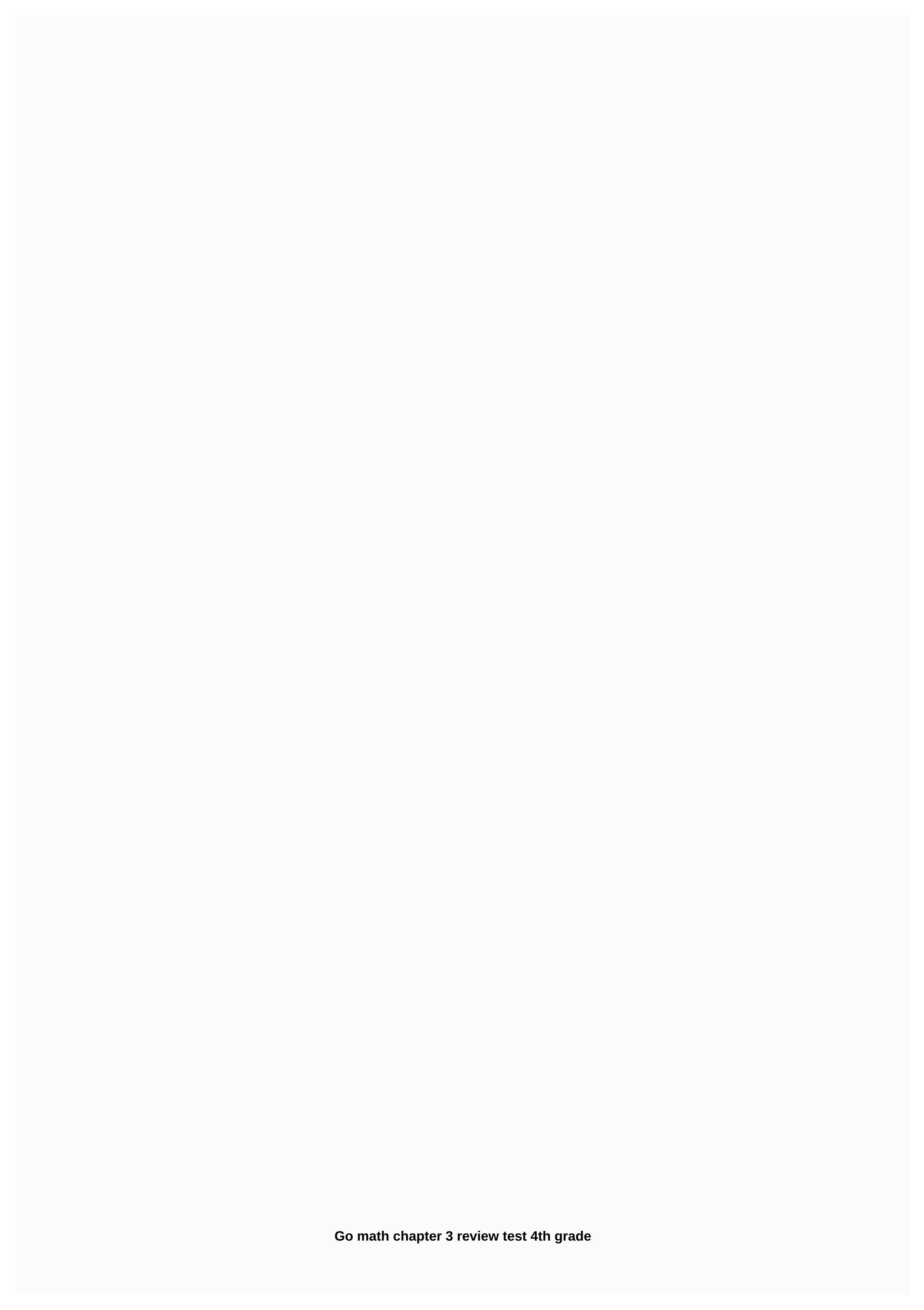
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Core - Page 149 Multiply by Tens Choose a method. Then find the product, Ouestion 1, 16 \times 60 = 960 Use the half-life and doubling strategy. Find half of 16: 16 \div 2 = 8. Multiply this number by 60: 8 \times 60 = 480 Double this result: 2 \times 480 = 960 Answer: 960 Explanation: Use the half-life and doubling strategy.
doubling strategy. Find half of 16: 16 \div 2 = 8. Multiply this number by 60: 8 \times 60 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 2 \times 480 = 960 Question 2. 80 \times 22 = 480 Double this result: 80 
1760 Questions 3 thinking. 30 \times 52 =  Answer: 1560 Explanation: Use the associative property You 30 see as 3 \times 10 \times 52 = (3 \times 3 \times 2 \times 10) \times 52 = 3 \times (10 \times 52) = 3 \times 520 = 1560 \times 52 =
10) x 35 = 4 \times (10 \times 35) = 4 \times 350 = 1400 \text{ 40} \times 35 = 1400 \text{ Question } 6.10 \times 90 = 400 \text{ Answer: } 1,550 \text{ Explanation: } 10 \times 90 = 900 \text{ Explanation: } 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \text{ tens} = 10 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \times 90 = 900 \text{ Question } 7.31 \times 8 = 90 \times 90 = 900 \text{ Q
the place value method to multiply 31 \times 50S 50s as 5 tens 31 \times 50 = 31 \times 5 tens = 1,550 31 \times 50 = 1,550 problem-solving question 8 thinking. Kenny bought 20 packs of baseball cards. There are 12 cards in each package. How many tickets did Kenny buy?
240 cards Explanation: Of the data given, Kenny bought 20 packs of basketball cards There are 12 cards in each package = 12 x 20 cards Use the associative feature You write 20 as 2 x 10 12 x 20 = 12 x (2 x 10) = (12 x 2) x 10 = 10 = 240 cards Kenny bought 240 cards Question 9. The
Hart family drove 10 hours to their vacation spot. They averaged 48 miles an hour. How many kilometers did they drive in total? miles Explanation: According to data given, Hart family drove 10 hours to their vacation spot Average speed per hour is = 48 miles
Total miles = 48 \times 10 Use the halving and doubling strategy Half of the 48 to make the problem simpler 48/2 = 24 Multiply 24 by 10 = 24 \times 10 = 240 Double value = 2 \times 240 = 480 miles Total miles driven by heart family = 480 miles. Common Core — Page 150 Les Check Question 1. For the
school game, 40 rows of chairs are set up. There are 22 seats in each row. How many seats are there in total? Options: a. 800 b. 840 c. 880 d. 8800 Answer: c. 880 Explanation: According to the data given For the school game, 40 rows of seats are available. 22 seats are available in each
row. Then total chairs in school games are = 22 x 40 By using the place value method You are thinking of 4 tens 22 x 40 = 22 x 4 tens = 880 Total chairs at school are = 880 Question 2. At West School, there are 20 classrooms. Each classroom has 20 students. How many
students are at West School? Options: a. 40 b. 400 c. 440 d. 4,000 Answer: b. 400 Explanation: From the data given, Total classrooms in west school = 20 Number of pupils per class = 20 Dan, total number of students at the West School = 20 x 20 By using the associative property You
think of 20 as 2 x 10 20 x 20 = 20 x (2 x 10) = (20 x 2) x 10 = (40) x 10 = (40) x 10 = 400 Total number of students at West School = 400 Spiral Review 3. Alex has 48 stickers. This is 6 times the number of stickers Max has. How many stickers does Max have? Options: a. 6 b. 7 c. 8 d. 9 Answer: c. 8
Explanation: According to the data, Alex has 48 stickers That means, X = 48 This is 6 times the number of stickers with Max = Y = 8 Stickers with Max = Y = 8 Stickers. Question 4. Ali's dog weighs 8 times as much as her
cat. Together, the two pets weigh 54 pounds. How much does Ali's dog weigh? Options: a. £6 b. £42 c. £46 d. £48 Answer: d. £48 Explanation: the data given, Ali's cat weight = X Ali's dog weight = 8 times as much as Ali's Ali's = 8X Together, the two pets weight = (X + 8X) = 54 pounds = 10 pounds = 10 pounds.
9X = 54 pounds = X = 54/9 pounds = 6 pounds Dan, Ali's dog weight = 8X = 8 x 6 = 48 pounds. Question 5. Allison has 3 containers with 25 crayons in each. She also has 4 boxes of markers with 12 markers in each box. She gives 10 crayons to a friend. How many crayons and markers
does Allison have now? Options: a. 34 b. 113 c. 123 d. 133 Answer: b. 113 Explanation: According to the data given, Allison has 3 containers with 25 color pot Lodes in each = X = 3 x 25 = 75 All has 4 boxes of markers with 12 markers in each box = Y = 4 x 12 = 48 Allison gives 10 crayons
to a friend = Z = 75-10 = 65 Now, total number of crayons and markers with Allison = Y + Z = 48 + 65 = 113 Question 6. The state of Montana covers 145,552 square miles. What is the total area of the two states? Options: a. 63,408 square
miles b. 223,408 square miles c. 227,696 square miles d. 966,992 square miles Answer: c. 227,696 square miles Explanation: From the data given, The state of Utah covers 82,144 square miles The state of Montana covers 145,552 square miles Then, Total area of the two states = 82,144
+ 145,552 The total area of two states = 227,696 square miles. Page 153 Question 1. To estimate the product of 62 and 28 by rounding, how would you round up the factors? What would be the estimated product? about Answer: 1800 Explanation: By using rounding and mental
mathematics Treasure 62 x 28 First, around each factor 62 x 28 60 x 30 Use mental mathematics 6 x 3 = 18 60 x 30 = 1800 So, estimated product of 62 and 28 = 1800 Estimates the product. Choose a method. Question 2. 96 × 34 Estimate:
mathematics and compatible numbers 96 \times 34\ 100 \times 30\ Use mental mathematics 1 \times 30 = 30\ 100 \times 30 = 3000\ Ouestion\ 3. 47 \times $39\ Estimate: Answer: 2000 Explainer: Round to the nearest ten 47 \times $39\ 50 \times $40\ 50 \times $4 = $200\ 50 \times $40 = 2000\ Ouestion\ 4. 78 \times 72\ Estimate:
Answer: 5600 Explanation: Use rounding and mental mathematics Around each factor 78 \times 72 \times 80 \times 70 Use mental mathematics 8 \times 7 = 56 \times 80 \times 70 = 5600 Question 5. 41 \times 78 Estimate: Answer: 3200 Explanation: Use compatible numbers and mental mathematics 41 \times 78 \times 80 \times 70 = 5600 Question 5. 41 \times 78 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 5. 41 \times 78 \times 70 = 5600 Question 6. 41 \times 70 = 5600 Question 7. 41 \times 70 = 
Use mental mathematics 40 \times 8 = 320 \times 40 \times 80 = 3200 Ouestion 6.51 \times 73 Estimate: Answer: 3500 \times 80 = 3200 Ouestion 7.34 \times 80 = 3200
80 = 2400 Practice: Copy and loose The product estimate. Choose a method. Ouestion 8. 61 \times 31 Estimate: Answer: 1800 Explanation: Round to the nearest ten 61 \times 31 60 x 30 = 1800 Ouestion 9. 52 \times 68 Estimate: Answer: 3500 Explanation: Around each factor 52 \times 68 50 x
70 Use mathematics 5 \times 7 = 3550 \times 70703500 Question 10.26 \times 44 Estimate: Answer: 1200 Explanation: Round to the nearest tens 26 \times 4430 \times 40 = 1200 Question 11.57 \times $69 Estimate: Answer: $4200 Explanation: Around each factor 57 \times $6960 \times $70 Use mental math
6 \times \$7 = \$42 \times 60 \times \$70 = \$4200 \text{ Find two possible factors for the estimated product. Question } 12.2,800 \text{ Type below:}
Answer: 2800 Explanation: Let's consider 7 \times 4 = 28 \times 70 \times 40 = 2800 \text{ Question } 13.8,100 \text{ Type below:}
= 81.90 \times 90 = 8,100 question 14. 5.600 Type below: Answer: 5,600 Explanation: Let's consider 7 x 8 = 56.70 x 80 = 5,600 Question 15. 2,400 Text below: Answer: 2,400 Explanation: Let's take 4 x 6 = 24.40 x 60 = 2400 Or 3 x 8 = 24.30 x 80 = 2,400 Question 15. 2,400 Text below:
16. Mr. Parker jogs for 35 minutes a day. He jogs 5 days in week 1, 6 days in week 2 and 7 days in week 3. How many minutes does he jog? about minutes Explanation: From the data given, mr. Parker jogs per day = 35 minutes He jogs 5 days in
week 1 = 5 \times 35 = 175 minutes 6 days in week 2 = 6 \times 35 = 210 minutes 7 days in week 3 = 7 \times 35 = 245 minutes Total minutes fog by mr. Parker = week 1 + week 2 + week 3 = 175 + 210 + 245 = 630 minutes So, total minutes of jogging by Mr Parker = 630 minutes Question 17. There are
48 beads in a package. Candice bought 4 packages of blue, 9 packages of gold, 6 packages of red and 2 packages of silver beads. How many beads did Candice buy? about beads Answer: approximately 1008 beads Explanation: According to the data given, 48 beads are in a
package Candice bought 4 packages of blue beads = 4 \times 48 = 1929 packages of gold beads = 9 \times 48 = 4326 packets of silver beads = 2 \times 48 = 96 Total beads purchased by Candice = 192 + 432 + 288 + 96 = 1008 beads So, total beads purchased
by Candice = 1008. Page 154 Question 18. On average, a refrigerator door is opened 38 times a day. Len has two refrigerators in his house. Based on this average, about how often in a period of 3 weeks are the refrigerator doors opened? about times Answer: about 1600 times
Explanation: Of the data given, On average, a fridge door is opened every 21 days = 21 Then a refrigerator door is opened every 21 days = 21 x 38 = 798 times Len has 2 refrigerators in his house Then two refrigerators door are opened every 21 days = 2 x 798 = 1596
So times, in a period of 3 – week refrigerator door is opened about 1600 times Question 19. The cost of running a refrigerator is about $57 a year. About how much will it have cost to walk by the time it's 15 years old? about $ Answer: 1200 Explanation: According to the data, The
cost of running a refrigerator per vear = $57 to run a fridge by the time it's 15 years old = $57* * Round to the nearest tens $57 x 15 $60 x 20 Use mental math $6 x 2 = 12 $60 x 20 = 1200 Question 20. If Mel opens his fridge door 36 times a day, about how often will it be opened in April?
Will the exact answer be more than or less than the estimate? Explain. Type below:

Answer: 1200 Explanation: From the given data, Mel opens his refrigerator door per day = 36 times Number of days in April month = 30 days Refrigerator door opened in April month = 36 *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Answer: 2800 Explanation: Let's take 1. 38 \times 21 \sqrt{\ }
30 Around the factors 36 x 30 40 x 30 = 1200 Question 21. Represent a problem what question could you write for this answer? The estimated product of two numbers, which are not multiples of ten, is 2,800. Type below:
40 \times 20 = 800 \times 2.800 = 42 \times 68 \sqrt{40 \times 70} = 2800 Question 22. What is a reasonable estimate for the product? Write the estimate. An estimate can be used more than once. 26 \times 48
x 20 = 600 20 x 20 = 400 50 x 25 = 1250 Explanation: 26 x 48 -> 25 x 50 = 1250 28 x 21 -> 30 x 20 = 600 21 x 22 -> 50 x 25 = 1250 Common Core – Page No. Choose a method. Question 1. 38 x 21 38 x 21 38 x 21 y 40 x 20 800 Answer: 800 Explanation: 38 x
                                                                                                            Answer: 1200 Explanation: 63 \times 19 \times 60 \times 20 = 1200 Estimated product of 63 \times 19 = 1200 Question 3. 27 \times $42 Estimate: $ Answer: $1000 Explanation: 27 \times $42 \times 25 \times $40 = $1000 Estimated product of 25 \times $42 = $1000
Question 4. 73 \times 67 Estimate: Answer: 4900 Explanation: 73 \times 67 70 x 70 = 4900 Estimated product of 73 \times 67 = 4900 Question 5. 37 \times $44 Estimate: Answer: $1600 Explanation: 37 \times $44 40 x $40 = $1600 Estimated product of 37 \times $44 = $1600 Question 6. 85 \times 71
                                   Answer: 6300 Explanation: 85 \times 71\ 90\ x\ 70 = 6300\ Estimated product of 85\ x\ 71 = 6300\ Question\ 7. 88 \times 56\ Estimate: Answer: 4950\ Explanation: 88 \times 56\ 90\ x\ 55 = 4950\ Estimated product of 90\ x\ 55 = 4950\ Question\ 8. 97 \times 13\ Estimate: Answer: 1,000\ Polymorphi
Explanation: 97 \times 13\ 100 \times 10 = 1,000\ \text{Question}\ 9.\ 92 \times 64\ \text{Estimate}: Answer: 5850 Explanation: 92 \times 64\ 90 \times 65 = 5850\ \text{Problem Solving Question}\ 10.\ \text{A dime has a diameter of about}\ 18\ \text{millimeters}. How many millimetres long would be a row of 34 dimes? about
Answer: about 600 millimeters Explanation: From the data given, A dime has a diameter of about 18 millimeters Then, 34 dimes diameter = 18 * 34 18 x 34 20 x 30 = 600 So, 34 dimes have a diameter of about 600 millimeters long Question 11. Half a dollar has a diameter of 31 millimeters.
How many millimeters long would be a row of 56 half dollars? about millimiters Answer: 1800 millimeters Explanation: According to the data given, Half – dollar has a diameter of about 31 millimeters. Then, 56 half dollars diameter = 31 * 56 31 * 56 30 * 60 So, 56 half dollars have a
diameter of about 1800 millimeters long. Common Core - Page 156 Les Check Question 1. What is the best estimate for the product 43 × 68? Options: a. 3,500 b. 2,800 c. 2,400 d. 280 Answer: b. 2,800 Explanation: Round to the nearest tens 43 x 68 40 x 70 Use mental mathematics 4 x 7
= 28 40 x 70 = 2800 Estimated product of 43 x 68 = 2800 Question 2. Marissa burns 93 calories every time she plays fetch with her dog once a day. About how many calories will Marissa burn playing with her dog in 28 days? Options: a. 4,000 b. 2,700 c. 2,000 d. 270
Answer: b. 2,700 Calories Explanation: From the data given, Marissa burned calories every time she plays fetch with her dog = 93 calories Dan, Marissa burned calories in 28 days while playing catch up with her dog = 28 x 93 Round to the nearest tens 28 x 93 30 x 90 Dan, estimated
calories burned in 28 days by Marissa = 2700 calories Spiral Review Question 3. Use the model to find 3 \times 126 = 378 Question 4. A Review Question 3. Use the model to find 3 \times 126 = 378 Question 4. A
store sells a certain brand of jeans for $38. One day, the store sold 6 jeans from that brand. How much money did the store make selling the 6 pairs of jeans? Options: a. $188 b. $228 c. $248 d. $288 Answer: b. $228 Explanation: According to the data given, a store sells a certain brand of
jeans for rupees = $38 One day, the store sold 6 jeans from that brand = 6 \times $38 \times $38 = $228 The total amount of 6 pairs of jeans = $228 Question 5. The Gateway Arch in St. Louis, Missouri, weighs about 20,000 tons. What amount can be the exact number of tons that the Arch
weighs? Options: a. 31.093 tonnes b. 25.812 tonnes c. 17.246 tonnes d. 14.096 tonnes Reply: c. 17.246 tons Explanation: Of the data given. Gateway Arch in St. Louis. Missouri weight = about 20.000 tons Of options available. 17.246 tons is closer to 20.000 tons then, the exact number of
tons the Arches = 17,246 tons is Call 6. What's another name for 23,000? Options: a. 23,000,000 b. 2,300,000 c. 230,000 Another name for 23 ten thousand = 23 x 10,000 = 230,000 Another name for 23 ten thousand =
2.30,000 Page No. 159 Find the product. Question 1. 16 \times 19 = 16
Draw a model to represent the product. Then include the product. Ouestion 4. 14 \times 16 = Answer: 224 Explanation: 100 + 40 + 60 + 24 = 224 Ouestion 5. 23 \times 25 = Answer: 575 Explanation: 400 + 60 + 100 + 15 = 575 Ouestion 6. Explain how modeling partial products can
be used to find larger-number products. Type below:

Answer: You use mental mathematics to find the partial products. Notes: Question 7. Emma bought 16 packs of sandwiches for a party. There were 12 rolls in one package. After
the party, there were eight rolls left. How many sandwiches have been eaten? Explain. rolls Answer: 184 sandwiches were eaten Explanation: From the data given, Emma bought 16 rolls for a party There were 12 rolls in a package Dan, total rolls = 16 x 12 = 192 100 + 60 + 20 + 12
=192 After the party there were 8 rolls over Dan, total eaten sandwiches are = 192 - 8 = 184 Page no. Jamal's Work 100 + 20 + 10
= 130 Kim's Work 120 + 60 = 180 a. For the answer that is nonsense, write an answer that makes sense. Type below:

Answer: a. Jamal's work makes nonsense. 100 + 20 + 50 + 10 = 180 it makes sense Question 8. B. Look at Kim's method. Can you think of another way
kim can use the model to find the product? Explain. Type below: Answer: Other method: 12 \times 15 = 10 \times 12 = 120 \times 12 = 12
Look at the model in 8b. How would the partial products change if the product was 22 × 15? Explain why you think the products are changing. Type below: ______ Answer: 330 Explanation: According to the 8b method 22 x 15 = 330 200 + 100 = 300 20 + 10 = 30 Now, 300 + 30 = 330
Finally, 22 x 15 = 330 The factor 15 has been increased in the current problem. So, the product also rises for 15 x 22. Common Core - Page 161 area models and partial products draw a model to display the product. Then include the product. Question 1. 13 × 42 Answer: Question 2. 18 ×
34 = Answer: 300 + 40 + 240 + 32 = 612 Question 3.22 \times 26 = Answer: 400 + 120 + 40 + 12 = 572 Question 4.15 \times 33 = Answer: 300 + 30 + 150 + 15 = 495 Question 5.23 \times 29 = Answer: 400 + 180 + 60 + 27 = 667 Question 6.19 \times 36 = Answer: 400 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100
300 + 60 + 270 + 54 = 684 Troubleshooting Question 7. Sebastian made the next model to find the product 17 \times 24. Is his model correct? Explain. a. yes b. Answer: b. no Explanation: 200 + 40 + 140 + 28 = 408 Question 8. Every student in ms. Sike's kindergarten has a box of crayons.
Every box has Crayons. If there are 18 students in Ms. Sike's class, how many crayons are there in total? ____ crayons Explanation: From the information given, Every student in Ms. Sike's kindergarten has a box of crayons in each box = 36 Crayons Number of
students in Mr. Sike.' Sike's class = 18 students Total crayons = 18 x 36 300 + 60 + 240 + 48 = 648 Common Core - Page 162 Les Check Question 1. Which product represents the model below? Options: a. 161 b. 230 c. 340 d. 391 Answer: d. 391 Explanation: 200 + 30 + 140 + 21 = 391 17
x 23 = 391 Question 2. Which product represents the model below? Options: a. 219 b. 225 c. 244 d. 275 Answer: b. 225 Explanation: 130 + 20 + 65 + 10 = 225 Spiral test question 3. Mariah builds a tabletop with square tiles. There are 12 rows of tiles and 30 tiles in each row.
How many tiles does Mariah use in total? Options: a. 100 b. 180 c. 360 d. 420 Answer: c. 360 Explanation: From the data given, Mariah builds a tabletop with square tiles Square contains 12 rows of tiles and 30 tiles in each row = 12 x 30 12 x 30 = 360 tiles Total tiles used by Mariah = 360
tiles Question 4. Trevor bakes 8 batches of cookies, with 14 cookies in each batch. He sets aside 4 cookies from each batch for a baking sale and puts the rest in a jar. How many cookies does Trevor put in the jar? Options: a. 112 b. 80 c. 50 d. 32 Answer: b. 80 Explanation: According to
the data given, Number of cookies baked by Trevor = 8 batches Number of cookies in each batch = 14 cookies So, total cookies from each batch for a bake = 8 * 4 = 32 cookies are reserved for a bowl Trevor kept rest of cookies in a pot = 112 - 32 = 80,
80 cookies are put in the jar by the Trevor Question 5. Li feeds her dog 3 cups of food a day. How many cups of food does her dog eat in 28 days? Options: a. 60 cups b. 70 cups c. 80 cups d. 90 cups Answer: c. 80 cups Explanation: According to the data, Li feeds her dog per day = 3 cups
of food Then Li feeds her dog 28 days = 3 x 28 = 84 cups of food So li feeds her dog with 84 cups of food in 28 days Question 6. Which symbol makes the number meaning true? 4 • 0 = 0 Options: a. + b. – c. × d. ÷ Answer: c. × Explanation: 4 x 0 = 0 Page No. Look 24 × 34. _____ Answer:
816 Explanation: Question 2. 1 2 × 1 2 — _____ Answer: 144 Explanation: Question 3. 3 1 × 2 4 — _____ Answer: 744 Explanation: Question 4. 2 5 × 4 3 — _____ Answer: 1,075 Explanation: Question 5. 3 7 × 2 4 — _ ____ Answer: 888 Explanation: Question 6. 5 4 × 1 5
——- Answer: 810 Explanation: Question 7. 8 7 × 1 6 ——- Answer: 1,392 Explanation: Question 8. 6 2 × 5 6 ——- Answer: 3.472 Notes: Question 9. 4 9 × 6 3 ——- Answer: 3,087 Explanation: Practice: Copy and Record the product. Question 10. 38 × 47
Answer: 1,786 Explanation: Question 11. 46 × 27 Answer: 1,242 Explanation: Question 12. 72 × 53 Answer: 3,816 Explanation: Question 13. 98 × 69 Answer: 6,762 Explanation: Question 14. 53 × 68 Answer: 3,604 Explanation: Question 15. 76 × 84
Answer: 6,384 Notes: Question 16. 92 × 48 Answer: 4,416 Explanation: Question 17. 37 × 79 Answer: 2,923 Explanation: Reason Abstract Algebra Find the unknown digits. Add to the problem. Question 18. Type below:
                                     _____ Answer: 7,954 Explanation: Question 20. Type below: _____ Answer: 1,908 Explanation: Question 21. Type below: _____ Answer: 952 Explanation: Page#Question 22. Use Charts A fruit warehouse ships 15 boxes of grapefruit to a store in
Santa Rosa, California. What is the total weight of the shipment? pounds Answer: 1,275 pounds Explanation: From the data given, A fruit packing warehouse is shipping 15 boxes of grapefruit store in Santa Rose, California Grapefruit weight per box = 85 pounds Total weight of
shipment = 85 x 15 So, the total weight of the shipment = 1275 pounds Demand 23. How many fewer 13 boxes of mandarins weigh? _____ pounds Answer: £450 Explanation: According to the data given, Tangelos weight per box = 90 pounds Dan, the weight of
the 13 boxes of tangelos = 90 x 13 And, the weight of the 18 boxes of tangelos = 90 x 18 1620 - 1170 = 450 So, 13 boxes of tangelos weight are 450 pounds less than 18 boxes of tangelos weight 24. What is the weight of 12 boxes of oranges? pounds Answer: 1,080 pounds
Explanation: The weight of oranges per box = 90 pounds then, weight of 12 boxes of oranges = 90 x 12 So, weight of 12 boxes of oranges = 1,080 pounds Question 25. Every person in the United States eats about 65 fresh apples a year. Based on this estimate, how many apples eat 3
families of 4 food per year? apples Answer: 780 apples Explanation: From the data given, Each person in the United States eats fresh apples per year = 65 3 families of 4 people = 3 x 4 = 12 people Then, the number of apples eaten by 12 people = 65 x 12 So, the total number of
apples eating with 12 people per year = 780 Question 26. The product 26 × 93 is larger than 25 × 93. How much bigger? Explain how you know without multiplying.

Answer: The difference is 93 26 x 93 is a group more than 25 x 93 Question 27. Margot wants to use sub-products to
find 22 \times 17. Write the numbers in the boxes to display 22 \times 17. Type below: ______ Answer: Explanation: 22 \times 17 (20 + 2) x 17 20 x (1 0 + 7) + 2 x (10 + 7) (20 x 10) + (2 x 7) + (2 x 10) + (2 x 7) Common Core - Page No. 167 Multiply Partial products Register the
product. Question 1. 2 3 × 7 9 — 1, 4 0 0 2 1 0 1 8 0 + 2 7 — 1, 8 1 7 Answer: 1, 8 1 7 Explanation: 2 3 × 7 9 — 1, 4 0 0 2 1 0 1 8 0 + 2 7 — 1, 8 1 7 Question 2. 5 6 × 3 2 — _ _ _ _ Answer: 1,792 Explanation: Question 3. 8 7 × 6 4 — _ _ _ _ Answer: 5,568
Explanation: Question 4. 3 3 × 2 5 —— Answer: 825 Explanation: Question 5. 9 4 × 12 —— Answer: 1,128 Explanation: Question 6. 5 1 × 7 7 —— Answer: 3,927 Explanation: Question 7. 6 9 × 4 9 —— Answer: 3,381 Explanation: Question 8. 8 6 × 8 4
                            Answer: 7,224 Explanation: Question 9. 9 8 × 4 2 ——- Answer: 4,116 Explanation: Question 10. 7 3 × 3 7 ——- Answer: 2,701 Explanation: Question 11. 8 5 × 5 1 ——- Answer: 4,335 Explanation: Troubleshooting Question 12. Evelyn drinks 8
glasses of water a day, that's 56 glasses of water a week. How many glasses of water does she drink in a year? (1 year = 52 weeks) glasses Explanation: According to the data given Evelyn drinks 8 glasses of water per day Evelyn drinks water per week =
56 glasses Then the number of glasses per 52 weeks = 52 x 56 Total number of glasses of water drinking by Evelyn per year = 2912 glasses water Question 13. Joe wants to use the Hiking Club's money to buy new walking sticks for each of his 19 members. The sticks cost $26 each. The
club has $480. Is this enough money to buy each member a new walking stick? If not, how much more money is needed? How much more is needed? Answer: This amount is not enough to buy walking sticks Still, $14 amount is needed to buy
walking sticks Explanation: From the data given, Joe wants to use the Hiking club funds to buy new walking sticks for each of the 19 members Cost per each stick = $26 Total walking sticks cost per 19 members = $26 x 19 Total cost for walking sticks for 19 members = $494 The club has =
$480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $490 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 members = $490 This amount is not enough to buy walking sticks for 19 member
This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This amount is not enough to buy walking sticks for 19 members = $494 The club has = $480 This
amount is not enough to buy walking sticks for 19 members = $49 Still, $14 amount is needed to buy walking sticks Common Core - Page number 168 Lesson Check Question 1. A carnival snack booth made $76 selling popcorn in one day. It made 22 times as many sales cotton candy.
How much money did the snack booth make selling cotton candy? Options: a. $284 b. c. $1,562 d. $1,672 Answer: d. $1,672 Explanation: According to the data given, A carnival snack booth popcorn made in a day = $76 It made 22 times as many selling cotton candy Than, total sales of
cotton candy made by snack booth = $76 x 22 So, $1672 cash snack booth gets for selling cotton candy Call 2. What are the partial products of 42 x 28? Options: a. 800, 80, 40, 16 c. 800, 40, 320, 16 d. 80, 16 Answer: c. 800, 40, 320, 16 Explanation: So, sub-products of 42 x 28
are 800, 800, 320, 16 Spiral Examination Question 3. Last year, the city library collected 117 used books for the shelves. This year it collected 3 times as many books has it collected this year? Options: a. 832 b. 428 c. 351 d. 72 Answer: c. 351 Explanation: From the data
given, Last year, the number of books collected by the city library by the shelves = 117 books This year, it collected 3 times as many books Total number of books collected by the city library for this year = 351 books Question 4. Washington Elementary has 232
students. Washington High has six times as many students. How many students does Washington High have? Options: a. 1,392 b. 1,382 c. 1,292 d. 1,281 Answer: a. 1,392 Explanation: According to the data given. The number of students in Washington elementary = 232 students
Washington High has 6 times as many students = 6 \times 232 = 1392 Total number of students in Washington High = 1392 students Ask 5. What are the partial products of 35 \times 7? Options: a. 10, 12 b. 21, 35 c. 210, 35 d. 350, 21 Answer: c. 210, 35 Explanation: Sub-products of 35 \times 7 are 210,
35 Question 6. Shelby has 10 five-dollar bills and 13 $10 bills. How much money does Shelby have in total? Options: a. $15 b. $60 c. $63 d. $180 Answer: d. $180 Explanation: Of the data given, Shelby has ten $5 accounts and thirteen $10 accounts = (10 x $5) + (13 x $10) = ($50) +
(\$130) = \$180 \text{ Total money with Shelby} = \$180 \text{ Page No. } 169 \text{ Question 1. Explain how to find } 40 \times 50 \text{ using mental math. Type below:} Answer: 200 Explanation: 40 \times 50 \text{ Using mental mathematics} = \$180 \text{ Page No. } 169 \text{ Question 2. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 2. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 2. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 2. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 2. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Page No. } 169 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Question 3. What is the first step in estimating} = \$180 \text{ Question 3. What is the
                                                     Answer: 18 centimeters Explanation: Round to the nearest values. So, the first step of the estimated 56 x 27 is rounding to the nearest values that 60 x 30 choose a method. Then find the product. Question 3. 35 \times 10 = 80 Answer: 350 Explanation: Using the
method of place value you take 10 as 1 ten 35 x 10 = 35 x 1 ten = 35 ten 35 35 x 10 = 350 Question 4. 19 \times 20 = 350 Question 5.
                                 Answer: 960 Explanation: Use the halving and doubling strategy half of 80 to make the problem easier 80/2 = 40 Multiply 40 with 12 40*12 = 480 Double the 480 2*480 = 960 Question 6.70 \times 50 = 80 Answer: 3,500 Explanation: 70 \times 50 Using the place
value method you take 50 as 5 tens 70 x 50 = 70 x 5 tens = 350 tens 70 x 50 = 3,500 Question 7. 58 × 40 = ____ Answer: 2,320 Explanation: By using the associative property you think of 40 (4 x 10) 58 x 40 = 58 x (4 x 10) = (58 x 4) x 10 = 232 x 10 58 x 40 = 2,320 Question 8. 30 × 40 =
             Answer: 1,200 Explanation: Use the halving and doubling strategy of the 40 to make the problem easier 40/2 = 20 Multiply 20 by 30 20*30 = 600 Double the 600 2*600 = 1200 30*40 = 1,200 Question 9. 14 \times 60 =  Answer: 840 Explanation: Using the place value method, use
the place value method to take 60 \times 14 \times 60s = 14 \times 6 tens = 84 tens 14 \times 60 = 840 Question 10.20 \times 30 = Answer: 600 Explanation: By using the associative property you 30 as (3 \times 10) = 20 \times (3 \times 10) = (20 \times 3) \times 10 = 11.16 \times 90 = Answer: 1.440 Explanation: Use the
halving and doubling strategy half of 90 to make the problem easier 90/2 = 45 Multiply 045 with 16 16*45 = 720 Double the 720 2*720 = 1440 16*90 = 1,440 Estimate the product. Choose a method. Question 12. 81 × 38 Estimate: Answer: 3,200 Explanation: Round to the nearest
tens. 81 is almost 80; 38 is almost 40; 80 x 40 = 3.200 Question 13. 16 \times \$59 Estimate: $\$Answer: \$120 Explanation: Round to the nearest tens. 16 is close to \$60; Use the mental math to find the product of 20 x \$60 2 x \$6 = \$12 20 x \$60 = \$120 Estimated product
of 16 \times $59 = $120 Question 14.43 \times 25 Estimate: Answer: 1,000 Explanation: Round to the nearest tens. 43 is almost 40; 25 is close to 25; 40 x 25 = 1,000 Question 15. 76 × 45 Estimate: Answer: 3,200 Explanation: Round to the nearest tens.
tens. 76 is close to 80: 45 is almost 40: Use mental mathematics 8 \times 4 = 32.80 \times 40 = 3200 So, the estimated product of 76 \times 45 = 3,200 Question 16.65 \times $79 Estimate: Answer: $4,800 Explanation: Round to the nearest tens. 65 is almost 60; $79 is close to $80; Use the mental
math 6 x $8 = $48 60 x $80 = $4800 So, estimated product of 65 x $79 = $4,800 Question 17. 92 \times 38 Estimate:
                                                                                                                                                                                                                                                Answer: 3,600 Explanation: Round to the nearest tens. 92 is close to 90; 38 is almost 40; Use the mental math, then 9 \times 4 = 36 \times 90 \times 40 = 3.600 \times 90, estimated product of
92 x 38 = 3,600 Question 18. 37 × 31 Estimate:
                                                                                                         Answer: 1,200 Explanation: Round to the nearest tens. 37 is almost 40; 31 is almost 30; Use the mental math, then 4 \times 3 = 1240 \times 30 = 1.200 So, estimated product of 37 \times 31 = 1,200 Question 19. 26 \times $59 Estimate:
$1,800 Explanation: Round to the nearest tens. 26 is almost 30; $59 is close to $60; Use the mental math, then 3 \times $6 = $1,800 So, estimated product of 26 \times $59 = $1,800 Question 20.54 \times 26 Estimate:

Answer: 18 centimeters Explanation: Round to the nearest tens.
54 is almost 50; 26 is almost 30; Use mental mathematics 5 \times 3 = 1550 \times 30 = 1,500 So, estimated product of 54 \times 26 = 1,500 Question 21.52 \times 87 Estimate:

Answer: 4,500 Explanation: Round to the nearest tens. is almost 50; 87 is close to 90; Use mental mathematics 5 \times 9 = 45
50 \times 90 = 4500 So, estimated product of 52 \times 87 = 4,500 Question 22 \times 39 = 4,500 Question 22 \times
Ouestion 23. 63 × 58 Estimate:
                                                                        Answer: 3,600 Explanation: Round to the nearest tens. 63 is almost 60; 58 is almost 60; Use mental mathematics 6 \times 6 = 3660 \times 60 = 3.600 \times 60 = 3.
The trip costs $26 for each student. There are 22 students in her class. What is a good estimate for the cost of the students' excursion? Type below:
                                                                                                                                                                                                                                                                                                                                                              Answer: 18 inches Explanation: According to the data given, Ms. Traynor's class is taking an excursion to the zoo Cost of
travel for each student = $26 Total number of students in her class = 22 The total cost of travel for students = $26 x 22 Round to the nearest tens. 26 is almost 30; 22 is close to 20; Use the mental math $3 x 2 = $6 $30 x 20 = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for students = $600 Dan, the total estimated cost for the trip for the tr
Ouestion 25. Tito wrote the following on the board. What's the unknown number? Answer: 400 Explanation: An unknown number is 50 x 8 = 400 Question 26. What are the partial products resulting from multiplication of 15 × 32? Type below:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Answer: Partial products are
300, 150, 20, 10 Explanation: Partial products are 300, 150, 20, 10 Question 27. A city bus company sold 39 single tickets and 20 return tickets from West Elmwood. Single tickets cost $14. Round-trip tickets cost $25. How much money did the bus company raise? $
                 Answer: $1,046 Explanation: According to the data given, Number of one - road tickets sold by the city bus company = 39 Return tickets from west Elmwood to east Elmwood = 20 Cost of one - road tickets = $14 Dan, cost of 39 one - way tickets = 39 x $14 = $546 Cost of return
tickets = $25 Dan, cost of 20 return tickets = $25 x 20 = $500 Total money collected by the city bus company = $546 + $500 = $1,046 Page No. 173 Question 1. Look at the problem. Complete the sentences. Multiply and to get 0. Multiply and to get 1,620. Add the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Answer: Estimate: 3,500 Product: 3,604
                                                                                      Answer: Multiply 27 and 0 to get 0. Multiply 27 and 6 to 1,620. Add the partial products. 0 + 1.620 = 1.620. Estimate. Then find the product. Question 2. 6 8 × 5 3 ——- Estimate:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Product:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Estimate: 3,000 Product: 3,294 Explanation: 61 is closer to 60 and 54 is closer
Explanation: 68 is closer to 70 and 53 is closer to 50 Estimate: 70 \times 50 = 3,500 \times 60 \times 53 = 3180 \times 53 = 424 \times 3180 + 424 = 3604 \times 36
                                                                                                                                                                                                                                                                                                                                                                                                             Product:
to 50 Estimate: 60 \times 50 = 3,000 \times 54 = 3240 \times 54 = 54 \times 3240 \times 3240 \times 54 = 3294 \times 3240 \times 32
                                                                                                                                                                                                                                                                                                                                                       Answer: Estimate: 2,700 Product: 2,4 000 30 Explanation: 27 is closer to 30 Estimate: 90 x 30 = 2,700 90 x 27 = 2430
                                                                                                                                                                                                                                                                                                                Product:
Product 2,430 Question 5. 3 0 × 4 7 ——- Estimate:
                                                                                                                                   Product:
                                                                                                                                                                              Answer: Estimate: 1,500 Product: 1,4 00 10 Explanation: 47 is closer to 50 Estimate: 30 x 50 = 1,500 30 x 47 = 1410 Product 1,410 Question 6. 7 8 × 5 6 ——- Estimate:
Answer: Estimate: 4,800 Product: 4,368 Explanation: 78 is closer to 80 and 56 is closer up to 60 Estimate: 80 \times 60 = 4,800 \times 70 \times 56 = 3920 \times 8 \times 56 = 448 \times 3920 + 448 = 4368 Product: 4,368 Question 7.2.7 \times 2.5 ——- Estimate:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Product:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Answer: Estimate: 600 Product:
675 Explanation: 27 is closer to 30 and 25 is closer at 20 Estimate: 30 \times 20 = 600 \times 20 \times 25 = 500 \times 25 = 175 \times 500 + 175 = 675 \times 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Product:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Answer: Estimate: 1,800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Answer: Estimate: $400 Product: $546
Product: 2,210 Explanation: 34 is closer to 30 and 65 is closer to 30 65 Estimate: 30 x 60 = 1,800 30 x 65 = 1950 4 x 65 = 260 1950 + 260 = 2210 Product 2,210 Question 9. 42 × $13 Estimate: $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Product: $
Explanation: 42 is closer to 40 and 13 is closer to 4 1 00 Estimate: 40 \times 10 = 400 \times 40 \times 13 = $520 \times 13 = $26 \times 520 + $26 = $546 \times 546 \times 546 \times 10 = 400 \times 17 \times 10 = 400 \times 1
                                                                                                                                                                                                                                                                                                                                                                                                           Product:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Answer: Estimate: 1,200 Product: 1,020 Explanation: 17 is closer to 20
                                                                                                                                                                                                                                                                        Answer: Estimate: 2,400 Product: 2,790 Explanation: 62 is closer to 60 and 45 is closer to 2,400 Product: 2,790 Explanation: 62 is closer to 60 and 45 is closer to 60
Estimate: 60 \times 20 = 1,200 \times 60 \times 17 = 1020 \text{ Product} = 1,020 \text{ Question } 111. 62 \times 45 \text{ Estimate}:
                                                                                                                                                                                                                         Product:
Estimate: 60 \times 40 = 2.400 \times 45 = 2700 \times 45 = 90 \times 2700 + 90 = 2790 \times 2.790 \times 2.790 \times 45 = 2790 \times 45 
                                                                                                                                                                                                                                                                                     Product: $ Answer: Estimate: 6,000 Product: 5,586 Explanation: 57 is closer to 60 and 98 is closer to 100 Estimate: 5,586 60 x 100 = 6,000 50 x 98 =
4900 7 x 98= 686 4900 + 686 = 5586 Product 5,586 Search for a Pattern Algebra Write a line for the pattern. Use your rule to find the unknown numbers. Question 13. Rule
                                                                                                                                                                                                                                                                                                                                                                                                                                  5 hours = 5 \times 60 = 300 \text{ min } 10 \text{hr} = 10 \times 60 = 600 \text{ min } 15 \text{ hours} = 15 \times 60 = 900 \text{ min } 20 \text{hr} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ min } 10 \text{ hours} = 10 \times 60 = 100 \text{ hours} = 10 \times 
20 x 60 = 1200 min 25 hours = 25 x 60 = 1500 min 14. Owners of a summer camp buy new cots for their cabins. There are 16 cabins. Each cabin needs 6 cots. Each cot costs $92. How much will the new cots cost? $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Answer: $8,832 Explanation: According to the data given,
Owners pf a summer camp buy new cots for their cabins Number of cabins 16 Each cabin needs 6 cots Dan, total cot = 16 x 6 = 96 Each cot cost = $92 Dan, cost for totalts = $92 x 96 92 is closer to 90 and is closer to 100 Estimate = 90 \times 100 = 9,000 \times 90 \times 96 = 8640 \times 200 \times 96 = 192 \times 9640 \times 964
192 = 8832 Product = 8,832 Question 15. A theatre has 28 rows of 38 seats downstairs and 14 rows of 26 seats above. How many seats does the theater have?
                                                                                                                                                                                                                                                                                                                                                                   seats Answer: 1,428 seats Explanation: According to the data given, A theater has 28 rows of 38 seats downstairs = 28 x
38 = 1064 \ 14  rows of 26  seats above = 14 \times 26 = 364  Total seats = 1064 + 364 = 1,428  seats Page no. Machine A can label 11 bottles in 1 minute. How many bottles can both machines label in 15 minutes? A. What do you need to know? Type
                                                                                                                                                                                                                                                                                                                                                                 Answer: 15x 11 and 15 x 12 Question 16. c. Tell us why you use more than one operation to fix the problem. Type below:
                                       Answer: Number of bottles labeled by Machine A and Machine B in 15 minutes Question 16. B. What numbers do you use? Type below:
                         Answer: To find out the total number of bottles from both machines A&B Question 16. d. Solve the problem. So, both machines can label
                                                                                                                                                                                                                                                                                                                                                bottles in minutes. Type below:
                                                                                                                                                                                                                                                                                                                                                                                                                                               Answer: Machine A can label 11 bottles in 1 minute Then, the number of
bottles labeled by machine A in 15 minutes = 15 x 11 = 165 Machine B can 12 bottles in 1 20 minutes Then the number of bottles labeled by machine B in 15 minutes = 15 x 12 = 180 Total bottles labelled by both machines in 15 minutes = 165 + 180 = 345 Question 17. Make sense of
trouble A toy company makes wooden blocks. A box contains 85 blocks. How many blocks can 19 boxes contain? blocks Explanation: From the data given, A toy company makes wooden blocks A box holds 85 blocks. How many blocks to hold by 19
boxes = 19 x 85 = 1615 Total number of blocks owned by 19 boxes = 1,615 Question 18. A company packs boxes of candles. Each box can contain 75 candles. So far, 50 boxes have been packed, but only 30 boxes have been loaded onto a truck. How many candles are left to load on the
                               Candles Answer: 1,500 Candles Explanation: According to the given data, A company is packing boxes of candles Each box can hold 75 candles Then, number candles to hold by 50 boxes = 50 x 75 = 3750 Number of candles to hold by 30 boxes = 30 x 75 = 2250 50 boxes
are packed, but only 30 boxes are loaded on a truck Remaining candles are left to truck = 3750 – 2250 = 1,500 Question 19. Mr. Garcia's class raised money for an excursion to the zoo. There are 23 students in his class. The cost of the trip will be $17 for each student. What are the costs
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for all students? Explain how you found your answer. \$ _____ Answer: Explanation: According to the data given, Mr Garcia's class raised money for an excursion to the zoo Total number of students in his class = 23 students Cost the for each student = \$17 Dan, total cost for all students = \$17 x 23 = \$391 Common Core - Page number 175 Multiply by RegroupIng Estimate. Then find the product. Question 1. Estimate: 2,700 Think: 87 is close to 90 and 32 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 30. 90 × 30 = 2,700 Answer: 2,784 Explanation: Think: 87 is close to 90 and 32 is close to 90 and 90 a

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Ouestion 2. 7.3 \times 2.8 — Estimate:
                                                                                                                                Answer: Estimate: 2,100 Product: 2,044 Explanation: Estimate: 73 is close to 70; 28 is almost 30. So, 70 x 30 = 2,100. Product: Write 73 as 7 tens and 3. Multiply 28 by 3. 2 28 x 73 —— 84 <— 3 x 28 Multiply 28 by 7 tens 5
                                                                                            Product:
28 x 73 — 1960 < – 70 x 28 Add the partial products. 84 + 1960 = 2.044. So, 73 x 28 = 2,044. Question 3. 4 8 × 3 8 — Estimate:
                                                                                                                                                                                                                                                                                               Product:
                                                                                                                                                                                                                                                                                                                         Answer: Estimate: 2,000 Product: 1,824 Explanation: 48 is close to 50 and 38 is close to 40. Estimate: 50 \times 40 = 2,000 \times 40
                                                                                                                                                                                                                Product: Answer: Estimate: 3,000 Product: 3,068 Explanation: 59 is close to 60 and 52 is close to 50. Estimate: 60 \times 50 = 3,000 \times 50 = 2600 \times 50
38 = 1520 8 x 38 = 304 1520 + 304 = 1824. Product: 1,824 Question 4. 5 9 × 5 2 ——— Estimate:
                                                                                                                                                                         Answer: Estimate: 3,200 Product: 3,360 Explanation: 84 is close to 80 and 40 is close to 40. Estimate: 80 × 40 = 3,200 80 x 40 = 3,200 4 x 40 = 160 3200 + 160 = 3,360. Product: 3,360. Question 6. 8 3 ×
                                                                                         Answer: Estimate: 6,400 Product: 6,391 Explanation: 83 is close to 80 and 77 is close to 80. Estimate: 80 \times 80 = 6,400 \times 80 \times 77 = 6,160 \times 77 = 231 \times 6,160 \times 77 = 6,391. Product: 6,391. Question 7. 9 1 × 1 9 — Estimate:
                  Answer: Estimate: 1,800 Product: 1,729 Explanation: 91 is close to 90 and 19 is close to 20. Estimate: 90 \times 20 = 1,800 \ 90 \times 19 = 1,710 \ 1 \times 19 = 1910 + 19 = 1,729. Product: 1,729. Problem-solving question 8. Baseballs come in boxes of 84 baseballs. A team orders 18 boxes of
                                                                                                                           baseballs Answer: 1.512 baseballs Explanation: To find total baseball. 84 x 18 80 x 18 = 1.440 4 x 18 = 72 84 x 18 = 1.512 Ouestion 9. There are 16 tables in the school's lunchroom. Each table can accommodate 22 students.
                                                                                                          students Answer: 352 students Explanation: Total Students = 16 x 22 10 x 22 = 220 6 x 22 = 132 220 + 132 = 352. 352 students can sit at lunch at once Common Core - Page number 176 Les Check Question 1. The art teacher has 48
boxes of crayons. There are 64 crayons in each box. What is the best estimate of the number of crayons the art teacher has? Options: a. 2,400 b. 2,800 c. 3,000 d. 3,500 Answer: c. 3,000 Explanation: 1. Total of crayons = 48 x 64 48 is almost 50; 64 is almost 60 50 x 60 = 3.000. The art
teacher has about 3,000 crayons. Question 2. A basketball team scored an average of 52 points in each of the 15 games. How many points did the team score in total? Options: a. 500 b. 312 c. 780 d. 1,000 Answer: c. 780 Explanation: Total points = 52 x 15 50 x 15 = 750 2 x 15 = 30 750 +
30 = 780. The basketball team scored a total of 780 points. Spiral overview Question 3. On a Saturday, an orchard sold 83 bags of apples in each bag. What expression represents the total number of apples sold? Options: a. 16 + 6 + 56 + 21 b. 160 + 60 + 56 + 21 c.
160 + 60 + 560 + 21 d. 1,600 + 60 + 560 + 21 Answer: d. 1,600 + 60 + 560 + 21 Explanation: Total number of apples sold = 83 \times 27 = 812,160 + 81 = 2,241. The total number of apples sold = 2,241. 16 + 6 + 56 + 21 = 99 not equal to 2,241160 + 60 + 56 + 21 = 297
not equal to 2,241\ 160+60+560+21=80\ 160\ 1 not equal to 2,241\ 1,600+60+560+21=2,241 equal to 2,241\ 1,600+60+560+21=2,241 is correct. Question 4. Hannah has a grid of squares that has 12 rows with 15 squares in each row. She turns 5 rows of 8 squares in the middle
of the grid blue. She turns the rest of the squares red. How many squares does Hannah turn red? Options: a. 40 b. 140 c. 180 d. 220 Answer: b. 140 Explanation: Hannah has a grid of squares with 12 rows with 15 squares in each row = 12 x 15 = 180. The grid of squares in blue = 5 x 8 =
40. The grid of squares in red = 180 – 40 = 140. Question 5. Gabriella has 4 times as many erasers. How many erasers does Gabriella have? Options: a. 32 b. 24 c. 12 d. 2 Answer: a. 32 Explanation: Gabriella has 4 x 8 = 32 eraserms. Question 6. Phil has
three times as many rocks as Peter. Together they have 48 rocks. How many more stones does Phil have than Peter? Options: a. 36 b. 24 c. 16 d. 12 Answer: b. 24 Explanation: Phil has 3 times as many rocks as Peter. Together they have 48 rocks. How many more stones does Phil have 3x rocks as Peter.
+ x = 48. 4x = 48. x = 48/4 = 12. Peter has 12 stone. Phil has 3 x 12 = 36 rocks. Phil has 36 - 12 = 24 more rocks than Peter. Page 179 Question 1. Find the product. Estimate: Product: Answer: Estimate: 1,500 Product: 1,566 Explanation: 54 x 29 Estimate: Think 54 is
close to 50; 29 is almost 30. 50 x 30 = 1,500 Product: 20 \times 5 tens = 100 tens 20 \times 4 ones = 80 ones 9 x 5 tens = 45 tens 9 x 4 ones = 36 ones. Add partial products. 1000 + 80 + 450 + 36 = 1,566. Estimate. Then choose a method to find the product. Question 2. 36 \times 14 ------ Estimate:
                                       Answer: Estimate: 400 Product: 504 Explanation: 36 x 14 Estimate: Think 36 is close to 40; 14 is almost 10. 40 x 10 = Product: 10 x 3 tens = 30 tens 10 x 6 ones = 60 ones 4 x 3 tens = 12 tens 4 x 6 ones = 24 ones. Add Add Products. 300 + 60 + 120 + 24 = 504.
                                                                                        Product: Answer: Estimate: 2,400 Product: 2646 Explanation: 63 x 42 Estimate: Think 63 is close to 60; 42 is almost 40. 60 x 40 = 2400 Product: 40 x 6 tens = 240 tens 40 x 3 ones = 120 ones 2 x 6 tens = 12 tens 2 x 3 ones = 6 ones.
Add partial products. 2400 + 120 + 120 + 6 = 2646. Question 4.84 \times 53 ——- Estimate: Answer: Estimate: Answer: Estimate: Think 84 is close to 80; 53 is almost 50. 80 x 50 = 4,000 Product: 50 x 8 tens = 400 tens 50 x 4 ones =
200 ones 3 \times 8 tens = 24 tens 3 \times 4 ones = 12 ones. Add partial products. 4000 + 200 + 240 + 12 = 4.452. Question 5 \times 7 \times 1 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 \times 1 = 4.452. Question 5 \times 7 \times 1 = 4.452. 
700 Product: 10 \times 7 tens = 70 tens 10 \times 1 ones = 10 ones 3 \times 7 tens = 21 tens 3 \times 1 ones = 3 ones. Add partial products. 700 + 10 + 210 + 3 = 923. Practice: Copy and fix estimate. Find the product. Question 6. 29 \times $82 Estimate: $ Product: $ Answer: Estimate: $2,400
Product: $2,378 Explanation: 29 \times $82 Estimate: Think 29 is close to 30; $82 is almost $80 \times 9 ones = $160 tens $80 \times 9 ones = $4 tens $2 \times 9 ones = $18 ones ones. Add partial products. $1600 + $720 + $40 + $18 = $2,378.
                                                                             Product: Answer: Estimate: 4.800 Product: 4.503 Explanation: 57 x 79 Estimate: Think 57 is close to 60: 79 is close to 80. 60 x 80 = 4.800 Product: 70 x 5 tens = 350 tens 70 x 7 ones = 490 ones 9 x 5 tens = 45 tens 9 x 7 ones = 63 ones.
Add partial products. 3500 + 490 + 450 + 63 = 4.503. Question 8. 80 \times 27 Estimate: Product: 2,400 Pro
56 tens 7 x 0 ones = 0 ones. Add partial products. 1600 + 0 + 560 + 0 = 2.160. Question 9. 32 \times $75 Estimate: $ Answer: Estimate: $2,100 Product: $2,400 Explanation: 32 \times $75 Estimate: Think 32 is close to 30; $75 is almost $70. 30 \times $70 = $2,100 Product: $70 x
3 tens = $210 tens $70 x 2 ones = $140 ones $5 x 3 tens = $15 tens $5 x 2 ones = $10 ones ones. Add partial products. $2100 + $140 + $150 + $10 = $2,400. Question 10. 55 × 48 Estimate: Product: Answer: Estimate: 2,750 Product: 2,640 Explanation: 55 × 48
Estimate: Think 48 is close to 50. 55 x 50 = 2,750 Product: 40 \times 5 tens = 200 tens 40 \times 5 ones = 200 ones 8 \times 5 tens = 40 ones. Add partial to do so. 2000 + 200 + 400 + 40 = 2.640. Question 11. 19 \times $82 Estimate: $ Product: $ Answer: Estimate: $1,600
Product: Product: Product: Statement: 19 \times \$82 Estimate: Think 19 is close to 20; \$82 is almost \$80. 20 \times \$80 = \$1,600 Product: \$80 \times 1 tens = \$720 ones \$2 \times 1 tens = \$2 tens \$2 \times 9 ones = \$18 ones ones. Add partial products. \$800 + \$720 + \$20 + \$18 = \$1,558.
Question 12. 25 × $25 Estimate: $ Product: $ Answer: Estimate: $625 Product: $625 Explainer: 25 × $25 Estimate: 25 x $2 2 25 = $625 Product: $20 x 2 tens = $40 tens $20 x 5 ones = $100 ones $5 x 2 tens = $10 tens $5 x 5 ones = $25 ones ones. Add partial products.
                                                                                                                                                                                         Answer: Estimate: 4,000 Product: 4,018 Explanation: 41 \times 98 Estimate: Think 41 is close to 40; 98 is almost 100. 40 \times 100 = 4,000 Product: 90 \times 4 tens = 360 tens 90 \times 1 ones = 90 ones 8 \times 4
$400 + $100 + $100 + $25 = $625. Question 13. 41 × 98 Estimate:
tens = 32 tens 8 x 1 ones = 8 ones. Add partial products. 3600 + 90 + 320 + 8 = 4.018. Identify Relationships Algebra Use mental mathematics to find the number. Question 14. 30 \times 14 = 420, i.e. 30 \times 15 = 450 Explanation: 30 \times 15 = 450 Explanation: 30 \times 15 = 30 + 420 30 \times 15 = 450
Question 15. 25 × 12 = 300, i.e. 25 × = 350 Answer: 25 x 14 = 350 Explanation: 25 × 12 = 300 For each subsequent multiplication, the product value is increased by 25. 25 x 13 = 325. 25 x 14 = 350. Question 16. The city conservation manager bought 16 maple trees for $26 each.
She paid with five $100 bills. How much change does the manager get? Explain. $ Answer: $84 Explanation: The city conservation manager bought 16 maple trees for $26 each = 16 x $26 = $416. She paid with five $100 bills = 5 x $100 = $500. The manager receives = $500 -
$416 = $84. Question 17. Each of the 25 students in Group A read for 45 minutes. Each of the 21 students in Group B reads for more minutes? Explain.

Answer: Group A read for more minutes than Group B. Explanation: Group A read for 25 x
45 = 1125 minutes. Group B read for 21 x 48 = 1008 minutes. Group A read longer than Group B. Page No. Martin collects stamps. He counted 48 pages in his compilation album. The first 20 pages each have 35 stamps in 5 rows. The rest of the pages each have 54 stamps. How many
stamps does Martin have in his album? A. What do you need to know? Type below: Answer: The total stamps in the first 20 pages + The total number of stamps on the remaining pages. Question 18. B. How are you going to multiply to find the number of stamps? Type below:
                     Answer: The first 20 pages each have 35 stamps in 5 rows. So, 35 x 5 = 175 stamps. Question 18. c. Tell us why you could use addition and subtraction to resolve the issue. Type below: ______ Answer: As stated that the number of stamps available in the first 20 and the
number of stamps available in the rest of the pages. We need to add all the pages to get 48 pages of stamps. Question 18. 18. Show the steps to solve the problem. Type below:

Answer: Martin has 48 pages in his collector's album. The first 20 pages each have 35 stamps in 5
rows. So, 35 x 5 = 175 stamps. The first 20 pages have 175 stamps. The rest of the pages each have 54 stamps. So, total stamps = 175 + 54 = 229 stamps. Question 18. E. Complete the sentences. Martin has a total of stamps on the first 20 pages. There are more pages after
the first 20 pages in Martin's album. There are stamps on the rest of the pages. There are stamps in the album. Type below: Answer: Martin has a total of 175 stamps on the first 20 pages. There are 24 more pages after the first 20 pages in Martin's
album. There are 54 stamps on the rest of the pages. There are 229 stamps in the album. Question 19. Select the expressions with the same product as 35 \times 17. Mark everything that applies. Options: a. (30 \times 10) + (30 \times 7) + (5 \times 10) + (5 \times 7) b. (30 \times 17) + (5 \times 17) c. (35 \times 30)
+(35 \times 5) + (35 \times 10) + (35 \times 7) \text{ d. } (35 \times 10) + (35 \times 7) \text{ e. } (35 \times 10) + (35 \times 7) \text{ e. } (35 \times 10) + (5 \times 10) + (5 \times 7) \text{ f. } (35 \times 30) + (35 \times 5) \text{ Answer: a. } (30 \times 10) + (5 \times 7) \text{ d. } (35 \times 10) + (5 \times 7) \text{ d. } (35 \times 10) + (35 \times 7) \text{ Explanation: } 35 \times 17 \text{ 30 } \times 10 = 300 \text{ 30 } \times 7 = 210 \text{ 5 } \times 10 = 50 \text{ 5 } \times 7 = 35 \text{ 300}
+210+50+35=595. a. (30\times10)+(30\times7)+(5\times10)+(5\times7)=300+210+50+35=595 equal to 595. (b. (30\times17)+(5\times17)=510+85=595 equal to 595. c. (35\times30)+(35\times5)+(35\times7)=1050+175+350+245=1820 not equal to 595. d. (35\times10)+(35\times7)=300+210+35=595 equal to 595. d. (35\times10)+(35\times7)=300+210+35=595 equal to 595. d. (35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(35\times10)+(
245 = 595 equal to 595e. (35 \times 10) + (5 \times 10) + (5 \times 7) = 350 + 300 + 50 + 35 = 735 not equal to 595. f. (35 \times 30) + (35 \times 5) = 1050 + 175 = 1,225 not equal to 595. Common Core — Page 181 Choose an estimate of the multiplication method. Then choose a method to find the
product. Question 1. Estimate: 1,200 3 1 × 4 3 —— 9 3 + 1, 2 4 0 —— 1, 3 3 3 Answer: Estimate: 1,200 Product: 1, 3 3 3 Explanation: Estimate: 1,200 3 1 × 4 3 —— 9 3 + 1, 2 4 0 —— 1, 3 3 3 Question 2. 6 7 × 8 5 —— Estimate: Product: Answer: Estimate:
6,300 Product: 5,695 Note: Estimate: 67 is close to 70; 85 is almost 90. 70 x 90 = 6,300. Product: 67 x 85 80 x 6 tens = 480 tens 80 x 7 ones = 35 ones. Add partial products. 4800 + 560 + 300 + 35 = 5.695. Question 3. 6 8 × 3 8 ——- Estimate:
                                              Answer: Estimate: 2,800 Product: 2,584 Note: Estimate: 68 is close to 70; 38 is almost 40. 70 x 40 = 2,800. Product: 68 x 38 30 x 6 tens = 180 tens 30 x 8 ones = 240 ones 8 x 6 tens = 48 tens 8 x 8 ones = 64 ones. Add partial products. 1800 + 240 + 480 + 64 = 180 tens 30 x 8 ones = 180 tens 30 x 8 ones = 240 ones 8 x 6 tens = 48 tens 8 x 8 ones = 64 ones. Add partial products. 1800 + 240 + 480 + 64 = 180 tens 30 x 8 ones = 180 tens 30 x 8 ones = 240 ones 8 x 6 tens = 48 tens 8 x 8 ones = 64 ones. Add partial products. 1800 + 240 + 480 + 64 = 180 tens 30 x 8 ones = 180 tens 30 x 8 ones = 240 ones 8 x 6 tens = 48 tens 8 x 8 ones = 64 ones. Add partial products. 1800 + 240 + 480 + 64 = 180 tens 30 x 8 ones = 180 tens 30 x 8 one
                                                                                                                                                 Estimate: 1,700 Product: 1,615 Explanation: Estimate: 95 is nearly 100. 100 x 17 = 1,700. Product: 95 x 17 10 x 9 tens = 90 tens 10 x 5 ones = 50 ones 7 x 9 tens = 63 tens 7 x 5 ones = 35 ones. Add partial
2.584. Question 4. 5 × 1 7 ——- Estimate: Product:
products. 900 + 50 + 630 + 35 = 1.615. Question 5. 4.9 \times 5.4 = 2.500 Estimate: Answer: Estimate: 4.500 \times 5.4 = 2.500 Product: 4.500 \times 5.4 = 2.500 
tens 4 \times 9 ones = 36 ones. Add partial products, 2000 + 450 + 160 + 36 = 2.646. Ouestion 6.91 \times 26 \longrightarrow Estimate: Answer: Estimate: 2.700 Product: 2.366 Explanation: Estimate: 91 is close to 90: 26 is almost 30, 90 x 30 = 2.700. Product: 49 \times 54 \times 20 \times 9 tens =
180 tens 20 x 1 ones = 20 ones 6 x 9 tens = 54 tens 6 x 1 ones = 6 ones. Add partial products. 1800 + 20 + 540 + 6 = 2.366. Question 7. 8 2 × 1 9 ——- Estimate: Answer: Estimate: 1,600 Product: 1,558 Note: Estimate: 82 is close to 80; 19 is almost 20. 80 x 20 =
1,600. Product: 82 \times 19 \times 10 \times 8 tens = 80 tens 10 \times 2 ones = 20 ones 9 \times 8 tens = 72 tens 9 \times 2 ones = 18 ones. Add partial products. 800 + 20 + 720 + 18 = 1.558. Question 8.46 \times 2.7 ——- Estimate: Product:
close to 50: 27 is almost 30, 50 x 30 = 1.500. Product: 46 x 27 20 x 4 tens = 80 tens 20 x 6 ones = 120 ones 7 x 4 tens = 28 tens 7 x 6 ones = 42 ones. Add partial products, 800 + 120 + 280 + 42 = 1.242. Ouestion 9, 4 1 × 3 3 ----- Estimate:
1,200 Product: 1,353 Note: Estimate: 41 is almost 40; 33 is almost 30. 40 \times 30 = 1,200. Product: 41 \times 33 \times 30 \times 4 tens = 12 tens 3 \times 4 tens = 12 tens 3 \times 4 tens = 3 ones. Add partial products. 1200 + 30 + 120 + 3 = 1.353. Question 10. 9.7 \times 1.3 = 1.353. Question 10. 9.7 \times 1.3 = 1.353.
                                Answer: Estimate: 1.300 Product: 1.261 Explanation: Estimate: 97 is close to 100, 100 x 13 = 1.300, Product: 97 x 13 10 x 9 tens = 90 tens 10 x 7 ones = 70 ones 3 x 9 tens = 27 tens 3 x 7 ones = 21 ones. Add partial products, 900 + 70 + 270 + 21 = 1.261, Ouestion 11, 7 5
                                                                                         Answer: Estimate: 5,600 Product: 5,195 Note: Estimate: 75 is close to 80; 69 is almost 70.80 \times 70 = 5,600. Product: 75 \times 69 \times 60 \times 7 tens = 420 tens 60 \times 5 ones = 300 ones 9 \times 7 tens = 63 tens 9 \times 5 ones = 45 ones. Add partial products. 4200 + 60 \times 7 tens = 60 \times 7 tens
× 6 9 ——- Estimate:
300 + 630 + 45 = 5.195. Problem-solving question 12. A cinema has 26 rows of seats. There are 18 seats in each row. How many places are there in total?
                                                                                                                                                                                                                                                                                                                                seats Answer: 468 seats Explanation: 26 \times 18 = 468 seats. 20 \times 18 = 360 \times 18 = 108 \times 108 + 360 = 468. Question 13. lesson at
Briarwood Elementary collected at least 54 54 food during the food drive. If there were 29 classes in the school, what was the least number of cans collected? cans Answer: 1,566 cans Explanation: Each lesson at Briarwood Elementary collected at least 54 cans of food. If there are
29 classes in the school, the least number of cans is collected = 54 x 29 = 1,566 cans. Common Core - Page 182 Les Check Question 1. A choir needs new robes for each of its 46 singers. Each robe costs $32. What are the total costs for all 46 robes? Options: a. $1.472 b. $1.372 c.
$1,362 d. $230 Answer: a. $1,472 Explanation: 46 x $32 40 x $32 = $1,280 6 x $32 = $1,280 6 x $32 = $1,280 b. 2,288 c. 488 d.
416 Answer: b. 2,288 Explanation: 52 \times 44 \times 50 \times 44 = 2,200 \times 2 \times 44 = 88 \times 2,200 + 88 = 2,288 \times 2,2
\times 600) +(4 × 200) c. (4 × 300) + (4 × 60) + (4 × 20) d. (4 × 300) + (4 × 60) + (4 × 2) Answer: d. (4 300) + (4 × 60) + (4 × 2) Explanation: 4 × 300) + (4 × 60) + (4 × 2) Explanation: 4 × 300) + (4 × 60) + (4 × 2) Explanation: 4 × 300) + (4 × 60) + (4 × 2) Explanation: 4 × 300) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 × 60) + (4 
\times \times 300) + (4 \times 60) + (4 \times 2) : 4 \times 300) + (4 \times 6) + (4 \times 2) = 12 + 24 + 8 = 44 not equal to 1,448.b. (4 \times 300) + (4 \times 60) + (4 \times 2) = 1,520 not equal to 1,448.b. (4 \times 300) + (4 \times 60) + (4 
\times 300) + (4 \times 60) + (4 \times 2) = 1200 + 240 + 8 = 1,448 equal to 1,448. Question 4. Use the model below. What is the product 4 \times 492? Options: a. 16 + 36 + 8 = 204 c. 160 + 360 + 8 = 528 d. 1,600 + 360 + 8 = 1,968 Answer: d. 1,600 + 360 + 8 = 1,968 Explanation: 1,600
+360 + 8 = 1,968 Question 5. What is the sum 13,094 +259,728? Options: a. 272,832 b. 272,832 b. 272,832 c. 262,722 Explanation: 13,094 +259,728 = 262,722 Question 6. During the 2008-2009 season, there were 801,372 people who attended home hockey games
in Philadelphia. There were 609,907 people attending the home hockey games in Phoenix. How much bigger was the homecoming in Philadelphia than in Phoenix that season? Options: a. 101,475 b. 191,465 c. 201,465 d. 202,465 Answer: b. 191,465 Explanation: 801,372 – 609,907 =
191,465 visitors Philadelphia is 191,465 larger than in Phoenix season. Page 185 Question 1. In June, an average of 74 bird counts were submitted per day. In July, an average of 89 were handed in per day. How many reports have been submitted for both months? (Tip: There are 30 days
in June and 31 days in July.) First, write problem for June. Type below:

Answer: Since an average of 74 bird count notifications were returned every day in June. For the Month of June, there are days = 30 x 74 = 2.220. Question 1. Then write the problem for July. Type below:
                         Answer: In July, an average of 89 bird count notifications were submitted in July. For the month of July there are 31 days = 31 x 89 = 2,759. Question 1. Finally, find and add the two products.
                                                                                                                                                                                                                                                                                                                                                                                                     Type below: _
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Answer: Since an average of 74 bird count notifications were
returned every day in June. For the Month of June, there are 30 days = 30 \times 74 = 2,220. In July, an average of 89 bird counts were handed in per day. For the month of July there are 31 days = 31 \times 89 = 2,759. Add two products to get the total number of reports submitted for both months.
2.220 + 2.759 = 4.979. Question 2. What if an average of 98 notifications per day were handed in for the month of June? How many reports have been submitted for June? Describe how your answer for June would be different. reports Answer: 720 more reports Explanation: Given
that an average of 98 reports were enabled in each day for the month of June. June has 30 days. Total notifications were submitted for June = 30 \times 98 = 2, 940. From the above answer, 98 - 74 = 24. So there would be 30 \times 24, or 720 more reports. Question 3. There are 48 crayons in a
box. There are 12 boxes in a box. Mr. Johnson ordered six boxes of crayons for the school. How many crayons did he get? crayons Explanation: There are 48 crayons in a box. There are 12 boxes in a box. So, 1 box = 48 x 12 = 576 crayons. When Mr.
Johnson ordered 6 boxes of crayons for the school, 6 x 576 crayons = 3,456 crayons. He gets 3,456 crayons. Question 4. Make sense of trouble Each of the 5 birdwatchers reported seeing 15 roseate spooners in one day. If they each reported seeing the same number of roseate spooners
over 14 days, how many would be reported? roseate spooners Answer: 1,050 pinky spooners Explanation: Given that, 1 day ->5 birdwatchers reported 15 rose eater spooners = 5 x 15 = 75 roseate spooners. So, in 14 days -> 5 birdwatchers reported 75 x 14 = 1,050 roseate
spooners. Page 186 Question 5. On each of Maggie's bird watching trips, she has seen at least 24 birds. If she has taken 4 of these trips every year for the past 16 years, at least how many birds has Maggie seen? at least _____ birds Answer: Maggie seen 1,536 birds Explanation: Given
that, 1 trip -> Maggie seen 24 birds. For 1 year she goes for 4 bird watching trips. So, she has seen 4 x 24 = 96 birds for 1 year. For 16 years, 16 x 96 = 1,536 birds have seen Maggie. Question 6. Make Sense of Problems There are 12 inches in a foot. Orders in September Harris 32 foot
ribbon for the Crafts Club. In January, she orders 9 meters less. How many inches of ribbon does Mrs. Harris order? Explain how you found your answer.

Answer: 660 There are 12 inches in a foot. In September, Ms. Harris ordered 32 feet of ribbon for the Crafts Club = 32 x 12 =
384. In January she orders 9 meters less = 32 - 9 = 23. So, in January, she orders 23 \times 12 = 276. Ms. Harris ordered 276 + 384 = 660 centimeters ribbon in total. (or) 9 less than 32 is 23, so I added 23 + 32 = 55. Then I multiplied 55 \times 12 = 660. Question 7. Lydia's having a party on
Saturday. She decides to write a riddle on her invitations to describe her house number on Cypress Street. Use the clues to find Lydia's address.

Cypress Street Answer: 14827 Cypress Street Explanation: Given that dozens of digit is 5 less than 7 = 7 – 5 = 2. 2 is the dozens of
figures. The figure of thousands is twice the figure in the tens place = 2 \times 2 = 4. The hundreds of figures is the largest even number that is less than 10 i.e., 8. The digit is the product of 7 and 1 = 7 \times 1 = 7. The 10,000 digits are the difference between the hundreds of digits and the figures.
So, 8 – 7 = 1. Add the products to get the final answer = 14827. Lydia's address (house number) is 14827 Cypress Street. Question 8. A school adds 4 rows of seats to the auditorium. There are 7 seats in each row. Each new chair costs $99. What are the total costs for the new seats?
                                                         Answer: $2,772 Explanation: Given that a school is adding 4 rows of seats to the auditorium. There are 7 seats in each row. So, 7 x 4 = 28 seats are available in an auditorium. Each new chair costs $99. 28 x $99 = $2,772 for total cost of the new seats.
Common Core - Page 187 Problem Solving Multiply 2 - Numbers Solve any problem. Use a bar model to help. Question 1. Mason counted an average of 18 birds on his bird feeder every day for 20 days. Gloria counted an average of 21 birds on her bird feeder every day for 16 days. How
many birds did Mason count at his feeder than Gloria counted with her? Birds counted by Mason: 18 × 20 = 360 Birds counted by Gloria: 21 × 16 = 336 Mark a bar model compare. Subtract. 360 – 336 = 24 So, Mason counted 24 more birds. Answer: Birds counted by Mason: 18 × 20 = 360
Birds counted by Gloria: 21 × 16 = 336 Mark a bar model compare. Subtract. 360 – 336 = 24 So, Mason counted 24 more birds. Question 2. The 24 students in Ms. Lee's class each collected an average of 18 cans for recycling. The 21 students in Mr. Galvez's class each collected an
average of 25 cans for recycling. How many more cans have been collected by Mr. Galvez's class than Ms. Lee's class? more cans Answer: The number of cans collected by ms. Lee's class = 18 x 24 = 432. The number of cans collected by Mr. Galvez's class = 25 x 21 = 525.
Subtract bar model. 525 – 432 = 93 more cans. Galvez's class collected 93 more cans than Ms. Lee's class. Question 3. At east school, each of the 45 classrooms has an average of 22 22 At West School, each of the 42 classrooms has an average of 23 students. How many more students
are left at East School than at West School? more students Answer: Students in Eastern school = 45 x 22 = 990. Students in West School = 42 x 23 = 966. Use Subtracting Bar Model. 990 – 966 = 24. East School has 24 more students than West School. Question 4. A zoo gift shop
orders 18 boxes of 75 key rings each and 15 boxes of 80 refrigerator magnets each. How many more key rings have than fridge magnets ordered by the gift shop? more key chains Answer: Number of key rings = 75 x 18 = 1,350. Number of refrigerator magnets = 80 x 15 = 1,200.
Use Subtracting Bar Model. 1.350 – 1,200 = 150. So, key chains are 150 more than fridge magnets. Common Core – Page 188 Les Check Question 1. Ace Manufacturing ordered 17 boxes with 85 ball bearings each. They also ordered 15 boxes with 90 feathers each. How many ball
bearings than feathers did they order? Options: a. 5 b. 85 c. 90 d. 95 Answer: d. 95 Explanation: Number of feathers = 90 \times 15 = 1,350. Use Subtracting Bar Model. 1.445 - 1.350 = 95. So, ball bearings are 95 \times 10 = 1.445. Number of feathers. Question 2. Elton
hiked 16 miles a day on a 12-day walking tour. Lola hiked 14 miles a day on her 16-day walking tour. In total, how many more miles did Lola hike than Elton hiked? Options: a. 2 miles b. 18 miles c. 32 miles d. 118 miles Answer: c. 32 miles Explanation: Walking tour by Elton = 12 x 16 =
192. Walking tour of Lola = 16 x 14 = 224. Use Subtracting Bar Model. 224 – 192 = 32. So, Lola's walking tour is 32 times more than Elton's walking tour. Spiral overview Question 3. An orchard has 24 rows of apple trees. There are 35 apple trees in each row. How many apple trees are
there in the orchard? Options: a. 59 b. 192 c. 740 d. 840 Answer: d. 840 Explanation: An orchard has 24 rows of apple trees in each row. 24 x 35 = 840 apple trees are in the orchard. Question 4. An amusement park reported 354,605 visitors last summer. What is
this number rounded to the nearest thousand? Options: a. 354,600 b. 355,000 c. 360,000 d. 400,000 Answer: b. 355,000 Explanation: An amusement park reported 354,605 visitors last summer. 4,605 is close to 5,000. The answer is 355,000. Question 5. Attendance at the football match
was 102,653. What is the value of the number 6? Options: a. 6 b. 60 c. 600 d. 6,000 Answer: c. 600 Explanation: Grade 6 is in hundreds of positions. So, the answer is 6 x 100 = 600. Question 6. Jill's fish weighs 8 times as much as her parakeet. Together, the pets weigh 63 grams. How
much does the fish weigh? Options: a. 7 ounces b. 49 ounces c. 55 ounces d. 56 ounces Answer: d. 56 grams Explanation: Let Jill's parakeet = X. Jill's fish weighs 8 times as much as her parakeet = X. Together, the pets weigh 63 X + X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = X = 
fish = 7 \times 8 = 56 ounces. Review/Test – Page 189 Question 1. Explain how to find 40 \times 50 using mental math Type below: Answer: 200 Explanation: 40 \times 50 E
$26 for each student. There are 22 students in her class. Question 2. Part A Round each factor to estimate the total cost of the excursion of the students. $ Answer: $600 Explanation: Total cost of student excursion = 22 x $26. 22 x $26. 22 x $30 = $600 The total cost would be about
$600. Question 2. Part B Use compatible numbers to estimate the total cost of the excursion. $ Answer: $500 Explanation: If we use compatible numbers to estimate the total cost of the excursion. 22 x $26 20 × 25 = 500 The total cost would be about $500. Question 2. Part C Which
do you think is the better estimate? Explain. Better estimate:

Answer: Using rounded numbers is a better estimate. When rounded numbers are used, one estimated factor was $4 more than the actual factor and the other estimated factor was $2, which is less than the actual
factor. So, the estimate should be close to the actual one. When compatible numbers are used, both estimated factors were less than the actual factors. So, the product will be an underestimate. Review/Test – Page No Question 3. 3a 35 × 10 = 350 i. yes ii. no answer: i. yes Explanation: 35
x 10 = 350 30 x 10 = 300. 5 x 10 = 50. 300 + 50 = 350. Question 3. 3b. 19 x 20 = 380 i. yes ii. no answer: i. yes Explanation: 19 x 20 = 19 x 2 tens. 19 x 20 = 38 tens = 380. Question 3. 3c. 12 x 100 = 120 i. yes ii. no answer: ii. no explanation: 12 x 100 = 120. 10 x 100 = 1000
Question 4. There are 23 boxes of pencils in Mr. Shaw's pantry. Each box contains 100 pencils. How many pencils are in the pantry? pencils Explanation: 23 x 100 = 2,300 pencils are in the pantry. Question 5. What would be a reasonable estimate for each
product? Write the estimate next to the product. An estimate can exceed 23 × 38 ×××
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 × 25 x 40 31 x 32 –&at;
30 \times 30 \times 46 \times 18 - \&gt; 50 \times 20 \times 39 \times 21 - \&gt; 50 \times 20 \times 39 \times 21 - \&gt; 25 \times 40 \times 40 \times 18; 46 \times 1
50 × 20 39 × 21; 39 is almost 40; 21 is close to 25. The estimated product is therefore 25 × 40 question 6. There are 26 baseball teams in the league. Explain
how you found your estimate. Type below:

Answer: There are 26 baseball teams in the league. Each team has 18 players. 26 x 18 25 x 20 We rounded each factor to its narrow factor, then simplified the multiplication. Question 7. The model shows 48 × 37. Write the partial
                                                      Answer: Partial products are 1200, 240, 280, 56 Review/Test – Page No. Jess made this model to find the product 32 × 17. Her models don't add up. Part A What did Jess do wrong? Type below:

Answer: Jess added the numbers in the
model instead of multiplying. Question 8. Part B Redraw the model so it's right. Type below: ______ Answer: Question 8. Part C What is the actual product 32 × 17? _____ Answer: 544 Explanation: 32 × 17 10 x 32 = 320 7 x 32 = 320 7 x 32 = 224 320 + 224 = 544. Question 9. Tatum wants to use
sub-products to find 15 × 32. Write the numbers in the boxes to display 15 × 32. Type below:

Answer: Review/Test – Page 192 Question 10. What product is shown by the model? Write the letter of the product on the line below the model. Type below:
A B 10 + 3 = 13 10 + 3 = 13 10 + 3 = 13 13 x 13 2. 10 + 7 = 17 30 + 6 = 36 17 x 36 3. 20 + 4 = 24 10 + 4 = 14 24 x 14 Question 11. Mrs. Jones places 3 orders for school T-shirts. Each order has 16 boxes of shirts and each box contains 17 shirts. How many T-shirts does Mrs. Jones order? Use partial
                                                                                  Answer: 816 T-shirts Explanation: Ms. Jones places 3 orders for school T-shirts. Each order has 16 boxes of shirts and each box contains 17 shirts. Each box has 17 shirts. 16 boxes = 16 x 17 = 272. Each order = 16 boxes = 272 shirts. 3
products to help you. Type below:
orders = 3 x 272 = 816 shirts. Mrs. Jones orders 816 T-shirts. Question 12. Write the unknown numbers. Use each digit exactly once. Type below:
                                                                                                                                                                                                                                                                                                                        Answer: 90 \times 40 = 3,600 \ 90 \times 6 = 540 \ 3 \times 40 = 120 \ 3 \times 6 = 18. 3,600 + 540 + 120 + 8 = 4,278. Question 13. Mike has 16 baseball
cards. Niko has 17 times as many baseball cards as Mike. How many baseball cards does Niko have? baseball cards Explanation: Mike has 16 baseball cards. Niko has 17 times as many baseball cards as Mike. How many baseball cards does Niko have? baseball cards.
                                                                                Answer: 1,008 Explanation: 36 \times 28 \times 20 \times 30 = 20 \times 6 = 120 \times 
Question 14. Multiply. 36 × 28 =
                                               tomato plants Answer: 420 + 126 = 546 tomato plants Explanation: 42 \times 13 10 \times 42 = 420 3 \times 42 = 126 420 + 126 = 546 tomato plants Question 16. Select another way to display 25 \times 18. Mark everything that applies. Opties: a. (20 \times 10) + (20 \times 8) + (5 \times 10) + (5 \times
8) b. (25 \times 20) + (25 \times 5) + (25 \times 10) + (25 \times 8) c. (20 \times 18) + (5 \times 10) + (5 \times 8) d. (25 \times 10) + (25 \times 8) e. (25 \times 20) + (25 \times 5) Antwoord: a. (20 \times 10) + (5 \times 8) c. (20 \times 18) + (5 \times 10) + (5 \times 18) + (5 \times 1
18) \times 10) + (5 \times 8) \text{ d. } (25 \times 10) + (25 \times 8) \text{ Uitleg: } 25 \times 18 \text{ } 10 \times 25 = 250 \text{ } 8 \times 25 = 200 \text{ } 250 + 200 = 450. \text{ a. } (20 \times 10) + (5 \times 8) = 200 + 160 + 50 + 40 = 450 \text{ b. } (25 \times 20) + (25 \times 5) + (25 \times 10) + (25 \times 8) = 500 + 125 + 250 + 200 = 1,075 \text{ c. } (20 \times 18) + (5 \times 10) + (5 \times 8) = 360 + 200 + 200 = 1,075 \text{ c. } (20 \times 18) + (5 \times 10) + (5 \times 8) = 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 360 + 3
+50 + 40 = 450 d. (25 \times 10) + (25 \times 8) = 250 + 200 = 450 e. (25 \times 20) + (25 \times 5) = 500 + 125 = 625 Question 17. Terrell runs 15 sprints. Each sprint is 65 meters. How many feet does Terrell walk? Show me your work. meters Answer: 975 meters Explanation: Terrell run 15 x 65 =
975 meters. Question 18. There are 3 new seats in each row in a school auditorium. There are 15 rows in the auditorium. Each new chair costs $74. What are the costs for the new seats? Explain how you found your answer. $ Answer: $3,330 Explanation: Given that there are 3
new seats in each row in a school auditorium. There are 15 rows in the auditorium. Each new chair costs $74. So, 3 x 15 = 45 seats are available in an auditorium. Each new chair costs $74. 45 x $74 = $3,330 for total cost of the new seats. Question 19. Ray and Ella helped move their
school library to a new building. Ray packed 27 boxes with 25 books in each box. Ella packed 23 boxes with 30 books in each box. How many more books did Ella pack? Show me your work. books Answer: 15 books Explanation: Ray packed 27 x 25 = 675 books. Ella packed 23 x
30 = 690 books Ella packed 690 - 675 = 15 books more than Ray. Review/Test - Page 194 Question 20. Julius and Walt find the product of 25 and 16. Part A Julius' answer is wrong. What did Julius do wrong? Type below:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Answer: Julius multiplied 25 by 10 and then
multiplied 25 by 6 correctly. He added the two partial products incorrectly. Question 20. Part B What did Walt do wrong? Type below:

Answer: Walt multiplied 6 by 5 and got 300 instead of 30 Question 20. Part C What is the right product? Type below:
400 Question 21. A clothing store sells 26 shirts and 22 jeans. Each garment costs $32. Part A What is a reasonable estimate for the total cost of the clothing? Clothing? or explain how you found your answer. $ Answer: $1500 Explanation: A clothing store sells 26 shirts and 22
jeans. 26 + 22 = 48 garments. Each garment costs $32. 48 \times $32.50 \times $30 = $1500 Question 21. Part B What is the exact answer for the clothing? Let's see or explain how you found your answer. $ Answer: $1,536 Explanation: 48 \times $32.40 \times $32 = $1,280.8 \times $
$256 $1,280 + $256 = $1,536  Page No. A restaurant has 68 seats. There are six chairs at each table. About how many tables are there in the restaurant? Estimate. 68 \div 6 Think: What number of times 6 is about 68? 10 \times 6 = 11 \times 6 = 12 \times 6 = 268 is closest to ____
                                                 tables in the restaurant. Type below: Answer: 68 is close to 70 and 6 is close to 5. So, 70/5 = 12. 10 \times 6 = 60 11 \times 6 = 66 12 \times 6 = 72 68 is closest to 66 ,so the best estimate is about 11 \times 6 = 66 tables in the restaurant. Find two
numbers that contain the quotient. Then estimate the quotient. Question 2. 41 ÷ 3 between 3. 192 ÷ 5 between 13 and 14 approximately 14 Explanation: 13 x 3 = 39; 14 x 3 = 42. The quotient of 41 ÷ 3 shall be between 13 and 14. Question 3. 192 ÷ 5 between
                           Answer: between 30 and 40 approximately 40 Explanation: 30 \times 5 = 150; 40 \times 5 = 200. The quotient of 192 \div 5 shall be between 30 and 40. Find two numbers that contain the quotient. Then estimate the quotient. Question 4. 90 \div 7 between 30 and 40.
between 12 and 13 about 13 Explanations: 12 \times 7 = 84; 13 \times 7 = 91. The quotient of 90 \div 7 is between 12 and 13. Question 5. 67 \div 4 between 16 and 17 on 17 Explanations: 16 \times 4 = 64; 17 \times 4 = 68. The quotient of 67 \div 4 shall be between 16 and
                                                                                  and Answer: between 30 and 40 approximately 30 Explanation: 30 \times 9 = 270; 40 \times 9 = 360. The quotient of 281 \div 9 is between 30 and 40. Question 7. 102 \div 7 between and Answer: between 14 and 15 approximately 15
17. Question 6. 281 ÷ 9 between
Explanation: 14 \times 7 = 98; 15 \times 7 = 105. The quotient of 102 \div 7 is between 14 and 15. Question 8.85 \div 6 between 14 and 15. Question 9.220 \div 8 between 14 and 15 about 14 \times 7 = 98; 15 \times 7 = 105. The quotient of 85 \div 6 is between 14 and 15. Question 9.220 \div 8 between
                                         Answer: between 20 and 30 about 30 Explanation: 20 \times 8 = 160; 30 \times 8 = 240. The quotient of 220 \div 8 is between 20 and 30. Determine whether the actual quotient is greater than or less than the given estimate. Write < or &gt;. Question 10. 83 ÷ 8
Answer: > Explanation: 83 \div 8 = 10.375 > 10 Question 11. 155 \div 4 40 Answer: < Explanation: 155 \div 4 = 38.75 < 40 Question 12. 70 \div 6 = 11,666 > 11 Question 13. What's the question? A dolphin's heart beats 688 times
Minutes. Answer: about 100 times. Type below:

Answer: How often does a dolphin's heart beat in 1 minute? Question 14. A mother tumbled ate about 278 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds Answer: about 40 pounds of food in a week. How much food did she eat in a day? about pounds of food in a week. How much food did she eat in a day? about pounds of food in a week. How much food did she eat in a day? about pounds of food in a week. How much food did she eat in a day? about pounds of food in a week. How much food did she eat in a day? about pounds of food in a week. How much food did she eat in a day? about pounds of food in a week. How much food did she eat in a day? About pounds of food in a week. How much food did she eat in a day? About pounds of food in a week. How much food did she eat in a day?
Explanation: 278 ÷ 7 The quotient of 278 ÷ 7 is between 39 and 40. Question 15. Tanya has $42 to spend in the Dolphin Island store. T-shirts sell for $7 each and sunglasses retail for $6. Tanya buys 3 T-shirts. How many pairs of sunglasses can she buy with the amount of money she has
left? sunglasses Answer: 3 pairs of sunglasses Explanation: Considering that Tanya has $42 to spend in the Dolphin Island store. T-shirts sell for $7 each and sunglasses sell for $6. Tanya buys 3 T-shirts = 3 x $7 = $21. sunglasses = $42 - $21 = $21. 1 sunglasses sells for $6. So,
$21 ÷ $7 = 3. 3 pairs of sunglasses Tanya can buy with the amount of money she has left behind. Page 200 Question 16. If a bottlenose dolphin can eat 175 pounds of fish, squid and shrimp in a week, about how many pounds of food does it eat in a day? Milo says the answer is about 20
pounds. Leah says the answer is about 30 pounds. Who's right? Explain. Answer: The bottlenose dolphin can eat 25 pounds for 1 day. Both answers are correct. Because the 25 pounds is between 20 and 30 pounds. Explanation: 1 week = 7 days. The bottlenose dolphin can eat
175 pounds for 7 days. For 1 day = 175 ÷ 7 = 25 pounds. The bottlenose dolphin can eat 25 pounds for 1 day. Both answers are correct. Because the 25 pounds is between 20 and 30 pounds. Question 17. Four families went to lunch. The total food bill came to $167. The families also left a
$30 tip for the waitress. If each family spent the same amount, how much did each family spend on dinner? Explain how you found your answer. $ Answer: $98.5 Explanation: Four families went out for lunch. The total food bill came to $167. The families also left a $30 tip for the
waitress. So, total amount = $167 + $30 = $197. If each family has spent the same amount = $197 \div 2 = $98.5 each family spent $98.5. Question 18. There are 6 screenings of a film about Van Gogh at the Kunstmuseum. A total of 459 people saw the film. The same number of people were
at each show. About how many people were on each result? Circle the numbers between which the quotient is located. Then explain how you found your answer. 40 50 60 70 80 Type below:

Answer: 40 50 60 70 80 I found multiples of 6 that is 459 in between. 70 \times 6 = 420 and
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80 × 6 = 480. Since 459 is closer to 480, 459 ÷ 6 is about 80. Conclusion Check the links and solved problems for better math practice. Use Go Math Grade 4 Answer Key Chapter 3 Multiply 2-digit numbers to knowledge. Improve practical knowledge and solve skills with help HMH Go Math

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