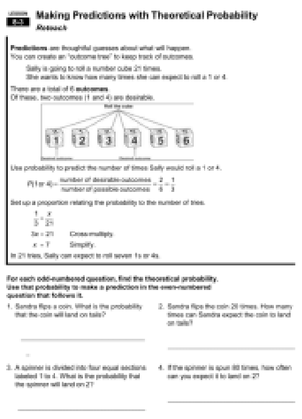
Conditional Probability Homework Unit 7



Lesson 8-3 **Making Predictions with Theoretical Probability**

Reinforce

Predictions are thoughtful guesses about what will happen.
You can create an "outcome tree" to keep track of outcomes.

Sally is going to roll a number cube 21 times.
She wants to know how many times she can expect to roll a 1 or 4.

There are a total of 6 **outcomes**.
Of these, two outcomes (1 and 4) are desirable.

Roll the cube

1 2 3 4 5 6

Desired outcomes — Other outcomes

Use probability to predict the number of times Sally would roll a 1 or 4.

$P(1 \text{ or } 4) = \frac{\text{number of desirable outcomes}}{\text{number of possible outcomes}} = \frac{2}{6} = \frac{1}{3}$

Set up a proportion relating the probability to the number of tries.

$\frac{1}{3} = \frac{x}{21}$

$3x = 21$ Cross-multiply.

$x = 7$ Simplify.

In 21 tries, Sally can expect to roll seven 1s or 4s.

For each odd-numbered question, find the theoretical probability. Use that probability to make a prediction in the even-numbered question that follows it.

1. Sandra flips a coin. What is the probability that the coin will land on tails?
2. Sandra flips the coin 26 times. How many times can Sandra expect the coin to land on tails?
3. A spinner is divided into four equal sections labeled 1 to 4. What is the probability that the spinner will land on 2?
4. If the spinner is spun 88 times, how often can you expect it to land on 2?

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