

# Schritte International 5 Pdf Free 23 Dahaver

SAT practice test

SOLUTIONS

1) If  $2x + 7 = 13$ , what is  $4x - 7$ ?

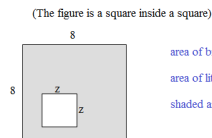
- a) 3  
**b) 5**  
 c) 7  
 d) -3  
 e) -5
- $2x + 7 = 13$   
 $2x = 6$   
 $x = 3$
- Then,  $4(3) - 7 = 5$

2) The mean of  $x$  and  $y$  is 9. And, the mean of  $x$ ,  $y$ , and  $z$  is 11. What is  $z$ ?

- a) 9  
 b) 10  
 c) 11  
 d) 13  
**e) 15**
- $\frac{x+y}{2} = 9$   
 $x+y = 18$
- Then,  $\frac{x+y+z}{3} = 11$   
 $\frac{18+z}{3} = 11$   
 $z = 15$
- Example:  $x = 6$   $y = 12$   $z = 15$   
 mean of  $x$  and  $y$  is 9  
 mean of  $x$ ,  $y$ , and  $z$  is 11

3) What is the area of the shaded region?

- a)  $16 + 2z$   
 b)  $32 - 4z$   
 c)  $64 + z^2$   
**d)  $64 - z^2$**   
 e)  $32 - z^2$



area of big square:  $8 \times 8 = 64$   
 area of little square:  $z \times z = z^2$   
 shaded area = big square - little square  
 $= 64 - z^2$

4) Team "hoops" scored  $1/4$  of their points in the 1st quarter,  $1/3$  of their points in the 2nd quarter,  $1/5$  of their points in the 3rd quarter. If they finished with 60 points, how many did they score in the 4th quarter?

- a) 12  
**b) 13**  
 c) 14  
 d) 15  
 e) 16
- $x =$  points in the 4th quarter  
 $1/4(60) + 1/3(60) + 1/5(60) + x = 60$   
 $15 + 20 + 12 + x = 60$   
 $x = 13$

5)  $2^{2x+1} = 8^{x-1}$  Find  $x$ :

- a) -1  
 b) 2  
**c) 4**  
 d)  $1/2$   
 e)  $2/3$
- (rewrite with 'common bases')
- $2^{2x+1} = (2^3)^{x-1}$   
 $2^{2x+1} = 2^{3x-3}$
- check:  $2^9 = 8^3$  ✓
- Then, solve for the exponents...  
 $2x + 1 = 3x - 3$   
 $x = 4$

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