

**Chapter  
9****B.E.S.T. Test Prep**

2. What equations have a positive solution? 3. What expressions are greater than 8?

Ⓐ  $a + 25 = 21$

Ⓑ  $21 = b - 16$

Ⓒ  $\frac{c}{6} = -20$

Ⓓ  $-144 = -6d$

Ⓔ  $e - 15 = 14$

Ⓕ  $-18 = f + 16$

Ⓐ  $1\frac{7}{9} \times 4\frac{3}{8}$

Ⓑ  $1\frac{3}{8} \times 3\frac{4}{9} \div 1\frac{2}{3}$

Ⓒ  $5\frac{7}{10} \div \frac{2}{3}$

Ⓓ  $10\frac{2}{5} - 2\frac{9}{10}$

Ⓔ  $5\frac{2}{3} + 2\frac{11}{12}$

Ⓕ  $8\frac{1}{8} - 2\frac{3}{4} + 3\frac{1}{4}$

4. What is the order of the numbers  $-7, |-4|, 8, |-3|, 0, -5$  from least to greatest?

Ⓐ  $-7, -5, 0, |-3|, |-4|, 8$

Ⓑ  $-7, -5, |-3|, |-4|, 0, 8$

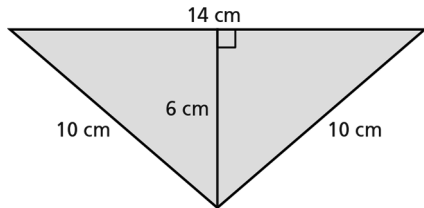
Ⓒ  $-7, -5, |-4|, |-3|, 0, 8$

Ⓓ  $-7, -5, |-3|, 0, |-4|, 8$

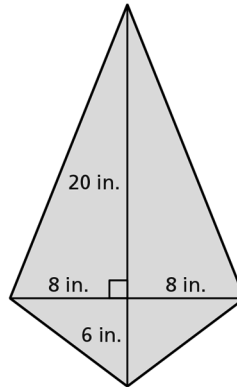
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**B.E.S.T. Test Prep (continued)**

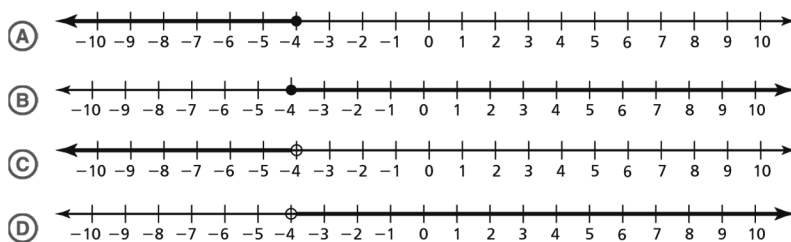
6. What is the area, in square centimeters, of the figure?



7. What is the area, in square inches, of the figure?



8. What is the graph of the inequality  $-4 \leq j$ ?



9. For a concrete mixture, there are 2 parts water for every 4 parts of concrete. How many parts of water are needed for 50 parts of concrete?
- (A) 25 parts of water                      (C) 75 parts of water
- (B) 50 parts of water                      (D) 100 parts of water

**Chapter  
9****B.E.S.T. Test Prep** (continued)

10. In a game, one player has 25 points. The other player has  $-10$  points. What is the difference in the points scored?

11. What is the equation that represents 40 equals 15 subtracted from  $x$ ?

Ⓐ  $15 = x - 40$

Ⓒ  $40 = x - 15$

Ⓑ  $15 = 40 - x$

Ⓓ  $40 = 15 - x$

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**B.E.S.T. Test Prep (continued)**

13. Determine if the given value is a solution to the equation.

	True	False
$x - 1 = \frac{x}{4}; x = 4$	(A)	(B)
$\frac{2}{3}y = -6; y = -9$	(C)	(D)
$5z - 2z = 21; z = 3$	(E)	(F)

14. You collected 40 seashells on Friday. This was  $x$  less seashells than what was collected on Saturday. What expression represents the number of seashells that were collected on Saturday?

- (A)  $x - 40$  (C)  $x + 40$   
(B)  $40 - x$  (D)  $40x$

15. A triangular garden needs to have a cover made. The base is 5 meters and the height is 8 meters. What is the area of the cover?

- (A)  $20 \text{ m}^2$  (C)  $40 \text{ m}^2$   
(B)  $26 \text{ m}^2$  (D)  $52 \text{ m}^2$

16. What is the value of  $3.2^2 + 1.1(4.5 - 5.8)$ ?

17. What is the GCF for the expression  $84a + 70b$ ?