

ACCUPLACER Next Generation Quantitative Reasoning Algebra and Statistics

Section: ACCUPLACER Next Generation Quantitative Reasoning Algebra and Statistics Exams • Total Questions: 10 •

Format: Verified Q&A

1. If $|x| + |y| = 4$ and $x \neq y$, then x CANNOT be equal to

- (A) 2
 - (C) -2
 - (D) -5
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2. Malia collected information about whether the members of the 36 households on her block subscribed to cable television and home phone services. Her results are shown in the table below. If a household on Malia's block is selected at random and does subscribe to cable television, what is the probability the members of the household also subscribe to home phone service?

- (A) $\frac{14}{18}$
 - (B) $\frac{14}{26}$
 - (C) $\frac{18}{36}$
 - (D) $\frac{14}{36}$
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3. If the radius of a circle is tripled, by what percent is the area of the circle increased?

- (A) 200%
 - (B) 300%
 - (C) 400%
 - (D) 800%
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4. Which of the following is equal to $|7 - 5|$?

- (A) $|7| + |-5|$
 - (B) $|5| - |7|$
 - (C) $|5 - 7|$
 - (D) $|-7 + (-5)|$
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5. At a clothing store, John bought 2 equally priced shirts and 1 pair of pants. The price of the pants was n dollars, and the total price for the 3 items was 75 dollars. What was the price, in dollars, of each of the shirts in terms of n ?

- (A) $75/2$
 - (B) $75 + n/2$
 - (C) $75 - n/3$
 - (D) $75 - n/2$
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6. If the length of a rectangle is increased by 30% and the width of the same rectangle is decreased by 30%, what is the effect on the area of the rectangle?

- (A) It is increased by 60%.
 - (B) It is unchanged.
 - (C) It is decreased by 15%.
 - (D) It is decreased by 9%.
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7. At a clothing store, John bought 2 equally priced shirts and 1 pair of pants. The price of the pants was n dollars, and the total price for the 3 items was 75 dollars. What was the price, in dollars, of each of the shirts in terms of n ?

- (A) $(75-n)/2$
 - (B) $(75+n)/2$
 - (C) $(75-n)/3$
 - (D) $(75-n)/2$
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8. In the system of equations above, k is a constant. How many solutions could there be to the system of equations? I. None II. One III. More than one

$$2x + 3y = 5; 4x + 6y = k$$

- (A) I only
 - (B) III Only
 - (C) I or II
 - (D) I or III
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9. $3^{5/2} - 3^{3/2}$

- (A) 1
 - (B) 2
 - (C) 3
 - (D) 3^2
 - (E) $2(3^{3/2})$
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10. Susan drives her car at an average speed of s miles per hour for t hours and travels 215 miles. Which of the following equations represents this information?

- (A) $st=215$
- (B) $215+t=s$
- (C) $s/t=215$
- (D) $s+t=215$