

ACCUPLACER Next Generation Quantitative Reasoning Algebra and Statistics Scores

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

Format: Verified Q&A

1. When the Sun is 35 degrees above the horizon, the length of a tree's shadow is 46 feet, as shown. How tall is the tree to the nearest foot?

- (A) 32 feet
 - (B) 56 feet
 - (C) 66 feet
 - (D) 80 feet
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2. A hose can fill a cubical tank of edge length 1 meter in 15 minutes. At this rate, how long would it take for the hose to fill a cubical tank of edge length 2 meters?

- (A) $\frac{1}{2}$ hours
 - (B) 1 hour
 - (C) 1.5 hours
 - (D) 2 hours
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3. The repeating decimal 0.111... is equivalent to

- (A) $\frac{1}{7}$
 - (B) $\frac{1}{9}$
 - (C) $\frac{1}{10}$
 - (D) $\frac{1}{11}$
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4. Luis and Stacy each contributed money to pay for a trip. They contributed a total of \$480, and Luis contributed \$30 more than twice the amount that Stacy contributed. How much money did Luis contribute for the trip?

- (A) \$150
 - (B) \$230
 - (C) \$300
 - (D) \$330
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5. Based on the pairs of values in the table above, which of the following could express a relationship between x and y ?

- (A) $y = x + 2$
 - (B) $y = 2x$
 - (C) $y = 2x + 2$
 - (D) $y = 3x + 2$
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6. In the inequalities, a and b are integers. What is the least integer value of a/b if $5 < a < 10$ and $1 < b < 5$?

- (A) 2
 - (B) -1
 - (C) -2
 - (D) -4
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7. Sarah and Kurt sold rolls of wrapping paper to raise money for a school trip. The number of rolls that Kurt sold was 20 less than $3 \times$ the number of rolls that Sarah sold. Which of the following could be the total number of rolls that Sarah and Kurt sold?

- (A) 164
 - (B) 165
 - (C) 170
 - (D) 175
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8. $3 \times (\frac{1}{2} + ?) =$

- (A) 221
 - (B) 265
 - (C) 361
 - (D) 365
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9. Point C is the center of the regular hexagon shown above. Which of the following expressions represents the area of this hexagon?

- (A) $12xy$
 - (B) $6xy$
 - (C) $3xy$
 - (D) xy
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10. If the inequality above is true for the constant a , which of the following could be a value of x ?

$$6x + 3 \geq a$$

- (A) $a/6$
- (B) $a/6 - 1$
- (C) $a/6 - 3$
- (D) $a - 4/6$