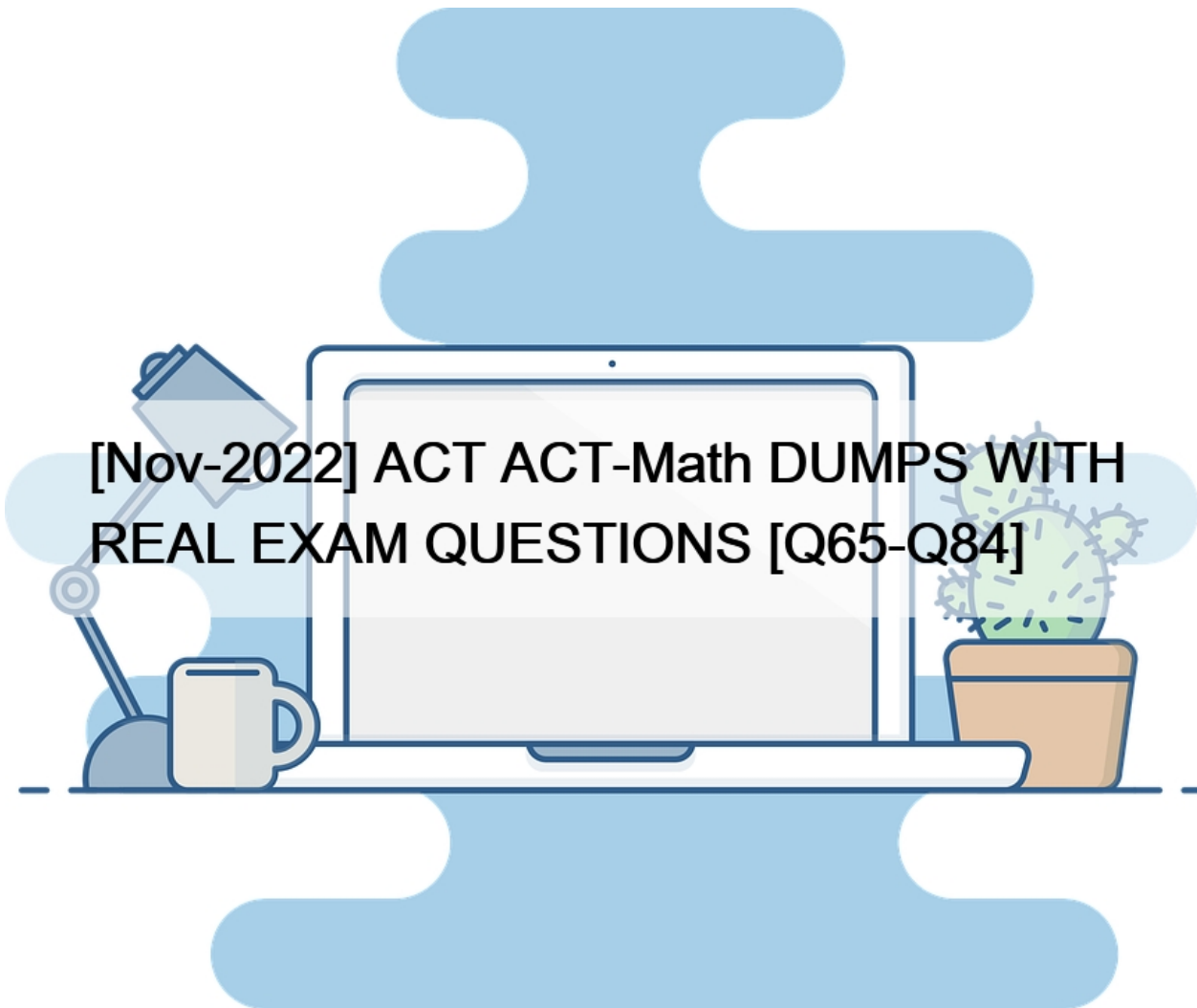


[Nov-2022 ACT ACT-Math DUMPS WITH REAL EXAM QUESTIONS [Q65-Q84]



[Nov-2022] ACT ACT-Math DUMPS WITH REAL EXAM QUESTIONS
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Q65. Which of the following is the vertex of the parabola which is the graph of the equation $y = (x + 1)^2 + 2$?

- * (-1, -2)
- * (1, -2)
- * (-1, 2)
- * (1, 2)
- * (2, -1)

Q66. When $x = 1/2$, what is the value of $(8x + 3) / x$?

- * $1/2$
- * 2
- * $5/2$

- * 5
- * 10

Q67. The average of five consecutive odd integers is -21.

What is the least of these integers?

- * -17
- * -19
- * -21
- * -23
- * -25

Q68. For what value of x is the equation $22x + 7 = 215$ true?

- * 2
- * 4
- * 11
- * 16
- * 44

Q69. The length of a rectangle is 5 inches longer than the width. The perimeter of the rectangle is 40 inches.

What is the width of the rectangle, in inches?

- * 7.5
- * 8
- * 15
- * 16
- * 17.5

Q70. The list of numbers 41, 35, 30, X, Y, 15 has a median of 25. The mode of the list of numbers is 15.

To the nearest whole number, what is the mean of the list?

- * 20
- * 25
- * 26
- * 27
- * 30

Q71. A building built on a level field casts a shadow seven feet long and stands 35 feet tall. A nearby building casts a shadow 14 feet long.

How tall is the building?

- * 28
- * 42
- * 56
- * 70

Q72. The statement "Raphael runs every Sunday" is always true.

Which of the following statements is also true?

- * If Raphael does not run, then it is not Sunday.

- * If Raphael runs, then it is Sunday.
- * If it is not Sunday, then Raphael does not run.
- * If it is Sunday, then Raphael does not run.
- * If it is Sunday, it is impossible to determine if Raphael runs.

Q73. The volume of a cylinder is 486? cubic units.

If the height of the cylinder is six units, what is the total area of the bases of the cylinder?

- * 9? square units
- * 18? square units
- * 27? square units
- * 81? square units
- * 162? square units

Q74. If $x \times y = 156$, $x + y = 43$, and $x < y$, what is the value of $x - y$?

- * -35
- * 35
- * 0
- * -24

Q75. The sum of 2 positive numbers is 151. The lesser number is 19 more than the square root of the greater number.

What is the value of the greater number minus the lesser number?

- * 19
- * 66
- * 85
- * 91
- * 121

Q76. A number cube is labeled with the numbers one through six, with one number on each side of the cube.

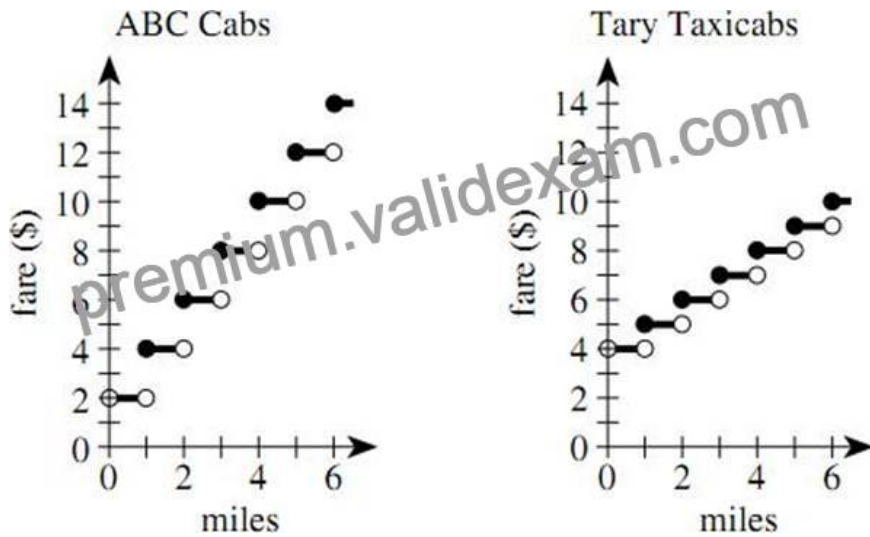
What is the probability of rolling either a number that is even or a number that is a factor of 9?

- * $\frac{1}{3}$
- * $\frac{1}{2}$
- * $\frac{2}{3}$
- * $\frac{5}{6}$
- * 1

Q77. Which of the following represents four times the sum of x and 8?

- * $4 \times (x + 8)$
- * $4x + 8$
- * $x + 8$
- * $4x$

Q78. ABC Cabs and Tary Taxicabs both have an initial fare of a whole number of dollars for 1 passenger. The fare increases a whole number of dollars at each whole number of miles traveled. The graphs below show the 1-passenger fares, in dollars, for both cab companies for trips up to 6 miles.



When the fares of the 2 cab companies are compared, what is the cheaper fare for a 5-mile trip?

- * \$8
- * \$9
- * \$10
- * \$11
- * \$12

Q79. If $3x + y = 2$ and $2y + 3x = 8$, which of the following is equal to x / y ?

- * $2/3$
- * $2/5$
- * $2\frac{1}{2}$
- * 4
- * 6

Q80. A streaming box with a list price of \$120 is marked down 30%.

If Steve gets an employee discount of 20% off the sale price, how much does he pay for the device?

- * \$67.20
- * \$72.30
- * \$78.40
- * \$80.00

Q81. A meter is a measure of length, and 10 decimeters is equal in length to one meter.

How many decimeters are equal in length to 14.5 meters?

- * 1,450
- * 145
- * 14.5
- * 1.45

Q82. Which of the following has a vertex of (4, -4)?

- * $y = 5(x + 4) + 4$
- * $y = 5(x - 4) + 4$

* $y = 5(x + 4)^2 + 4$

* $y = 5(x + 4) + 4$

Q83. A book receives 30 reviews on Amazon as judged by a 5-star scale. Sixty percent gave the book 5 out of 5 Stars.

How many reviewers gave it this rating?

* 6

* 12

* 18

* 24

Q84. Drag and drop

$$\frac{\frac{b}{a} - a}{\frac{1}{a^{-1}}}$$

* b

* $b + a^2$

* $b/a + 1$

* $b/a^2 + 1$

* $b/a^2 + a$

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