

ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

Solve for x: $-x^2 - x + 30 = 0$

A. 4, -8

B. -6, 5

C. -4, 5

D. 6, -3

Correct Answer: B

Explanation: This is a quadratic equation, which is solved by factoring. -x2-x+30 = 0 - (-x2-x+30) = 0 x2+x-30 = 0 (x+6)(x-5) = 0 x+6 = 0x-5 = 0 x=-6x=5

QUESTION 2

?-9 is an example of a(an) _____.

- A. real number
- B. imaginary number
- C. irrational number

D. sloping number

Correct Answer: B

Explanation:

The square root of a negative number doesn/\/t exist as far as real numbers are concerned. In mathematics,

this is called an imaginary number.

QUESTION 3

(12 yards + 14 feet) ÷ 5 = _____.

- A. 12 feet
- B. 51?5 feet
- C. 10 feet
- D. 21?2 yards
- Correct Answer: C



Explanation:

Convert 12 yards and 14 feet to feet:

(12 yards x 3 feet per yard) + 14 feet = 36 feet + 14 feet = 50 feet.

Divide by 5 as instructed: 50 feet \div 5 = 10 feet.

QUESTION 4



In the diagram provided, what is the value of x?

A. 153°

B. 333°

C. 27°

D. 207°

Correct Answer: A

QUESTION 5

Solve this: 6! = _____.

A. 72

B. 12

C. 720



D. 24

Correct Answer: C

QUESTION 6

Solve for x:

3x + 2 = -13

A. x = 13

B. x = -41/3

C. x = 8

D. x = -5

Correct Answer: D

Explanation: Step 1: Subtract 2 from each side of the equation in order to eliminate -2 from the left side. (You are undoing the addition.) 3x + 2 - 2 = -13 - 2 3x = -15 Step 2: Now divide each side by 3 to find x. (You are undoing the multiplication.) 3x/3 = -15/3 x = -5

QUESTION 7

Which of the following is a prime number?

A. 27

B. 11

C. 8

D. 4

Correct Answer: B

Explanation:

A prime number is a number that can be divided evenly by itself or by one, but not by any other number.

Choices 27, 8 and 4 can all be divided evenly by other numbers.

QUESTION 8

What is 4% of 0.0375?

A. 0.0015

B. 0.9375
C. 0.0775
D. 0.15
Correct Answer: A
Explanation:
Multiply 0.0375 by 4% (or 0.04).
0.0375 x 0.04 = 0.001500 = 0.0015
Note that the product has as many decimal places as there are in the multiplicand and multiplier combined,
but the two final zeros may be dropped since they are to the right of the decimal point and at the end.

QUESTION 9

(675 x 3)/5 = _____. A. 400 B. 40 C. 200 D. 405 Correct Answer: D

QUESTION 10

Solve for x: 5x + 7 = 6(x - 2) - 4(2x - 3)

A. 1

B. –1

C. 2

D. –2

Correct Answer: B

Explanation: 5x + 7 = 6(x - 2) - 4(2x - 3)5x + 7 = 6x - 12 - 8x + 125x + 7 = -2x7x + 7 = 07x = -77?7x = -7?7x = -1

QUESTION 11



If a circle has a radius of 12 feet, what\\'s its circumference most nearly?

- A. 24 feet
- B. 72 feet
- C. 75 feet
- D. 36 feet
- Correct Answer: C

Explanation:

Circumference equals ? x diameter, and diameter is equal to two times the radius. Or C = ? x d, and d =

2r. C = ? x 24.

If you round ? to 3.14, the answer is about 75.36 or about 75 feet.

QUESTION 12

A pizza maker has y pounds of flour to make pizzas. After he has used 60 pounds of flour, how much flour is left?

The expression that correctly represents the quantity of flour left is _____.

- A. 60 y
- B. y/60
- C. 60 + y
- D. y 60

Correct Answer: D

QUESTION 13

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Triangle ABC (shown above) is a(n) _____.

- A. right triangle
- B. equilateral triangle
- C. scalene triangle
- D. isosceles triangle
- Correct Answer: A

Explanation:

A right triangle has one right angle (one 90-degree angle).

QUESTION 14

Which of the following is the mode in this series of numbers? 2, 2, 6, 6, 6, 6, 8, 8, 8, 10, 10, 12

A. 8

- B. 10
- C. 6
- D. 12

Correct Answer: C



QUESTION 15

What is 50 percent of 78?

A. 24

B. 29

C. 39

D. 44

Correct Answer: C

Explanation: Multiply 78 x 0.5

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