



ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

The average of 80, 46, 32, and 22 is _____.

- A. 48
- B. 42
- C. 36
- D. 45

Correct Answer: D

QUESTION 2

Which of the following means $3n + 7 = 16$?

- A. 7 more than 3 times a number is 16
- B. 3 more than 7 times a number is 16
- C. 7 less than 3 times a number is 16
- D. 10 times a number is 16

Correct Answer: A

Explanation:

The expression $3n$ means 3 times n . The addition sign before the 7 indicates the phrase more than.

QUESTION 3

Which is equivalent to $43/8$?

- A. $12/8$
- B. $3/32$
- C. $3/20$
- D. $35/8$

Correct Answer: D

Explanation:

Multiply 8×4 to get $32/8 + 3/8 = 35/8$



QUESTION 4

If $a = 4$, then $a^3 \div a =$ _____.

- A. 4
- B. 12
- C. 64
- D. 16

Correct Answer: D

Explanation:

$$(4 \times 4 \times 4) \div 4 = 64 \div 4 = 16$$

QUESTION 5

A cylindrical post has a cross section that is a circle with a radius of 3 inches. A piece of cord can be wound around it exactly seven times.

How long is the piece of cord? Use $22/7$ as the value of π .

- A. 66 inches
- B. 42 inches
- C. 198 inches
- D. 132 inches

Correct Answer: D

Explanation: A length of cord that will wind around once is equal to the circumference of the circle whose radius is 3 inches. The circumference of a circle equals $2\pi r$ where $n = 22/7$ and r is the radius. Circumference = $22/7 \times 22/7 \times 3/1 = 132/7$ inches. If the cord can be wound around the post seven times, its length is seven times the length of one circumference. Length of cord $132/7 \times 7/1 = 132$ inches

QUESTION 6

An equilateral triangle has the same perimeter as a square whose side is 12 inches.

What is the length of a side of the triangle?

- A. 9 inches
- B. 12 inches
- C. 18 inches



D. 16 inches

Correct Answer: D

Explanation:

The perimeter of a square is 4 times a side. Therefore, the perimeter of this square is 4×12 inches or 48 inches.

The equilateral triangle has the same perimeter as the square. Since the 3 sides of an equilateral triangle are equal, divide by 3 to find the length of one side. $(48 \text{ inches}) \div 3 = 16 \text{ inches}$ (length of one side).

QUESTION 7

$(675 \times 3)/5 = \underline{\hspace{2cm}}$.

A. 400

B. 40

C. 200

D. 405

Correct Answer: D

QUESTION 8

Solve for x:

$$x^2 = 3x + 10.$$

A. $x = 3$; $x = 10$

B. $x = -3$; $x = -10$

C. $x = -2$; $x = 5$

D. $x = 2$; $x = -5$

Correct Answer: C

Explanation:

To solve the equation $x^2 = 3x + 10$, turn it into an equation equal to 0, find the two factors of the new equation, and then set each factor equal to 0, to solve for x.

Step 1: Move all expressions to one side of the equal sign. Change the signs of terms that are moved. $x^2 - 3x - 10 = 0$



Step 2: Find the two factors that you would multiply to produce this polynomial. Do this one expression at a time. What gives you x^2 ? The answer is x times x . Therefore, place an x at the beginning of each factor. $(x)(x)$ Next find the two numbers you would multiply to get 10. The numbers could be 10 and 1, or 5 and 2, but remember that the two numbers also have to produce 3, the middle term in the polynomial. The difference between 5 and 2 is 3. Therefore 5 and 2 are the numbers that complete the factors $(x - 5)(x + 2)$ Now decide the signs that belong in each factor. The appearance of -10 in the polynomial means that 5 and 2 have different signs. The $-3x$ in the polynomial indicates that 5 (the larger number) has the minus sign, and that 2 has a plus sign. Thus $(x - 5)(x + 2)$ Step 3: Set each factor equal to zero and solve the equations. $x - 5 = 0$ $x + 2 = 0$ $x = 5$ $x = -2$

QUESTION 9

How many different combinations of shirts and ties are possible if you have 4 shirts and 5 ties?

- A. 120
- B. 9
- C. 30
- D. 20

Correct Answer: D

Explanation:

With each of the 4 shirts you can wear one of the 5 ties, so the total number of combinations is $4 \times 5 = 20$

QUESTION 10

If y inches of rain falls in one minute, how many inches will fall in p hours?

- A. $60y/p$
- B. $60y$
- C. $60py$
- D. $60p$

Correct Answer: C

QUESTION 11

What's the sum of the integers from 1 to 300?

- A. 38,243
- B. 45,150



C. 49,923

D. 52,024

Correct Answer: B

Explanation:

The formula to find the sum of a finite arithmetic sequence is $S = n/2(a+b)$, where n is the number of terms, a is the first term in the sequence, and b is the last term in the sequence.

In this case there are 300 terms (n), and the first term is 1 and the final term is 300.

$$S = n/2(a + b)$$

$$S = 300/2(1 + 300)$$

$$S = 150(301)$$

$$S = 45,150$$

QUESTION 12

Solve the following problem: What does $96/92 =$ _____.

A. 94

B. 93

C. 184

D. 95

Correct Answer: A

Explanation:

When dividing two powers with the same base, you keep the base and subtract the exponents.

QUESTION 13

The cube of 5 is _____.

A. 125

B. 25

C. 15

D. 50



Correct Answer: A

Explanation:

The cube of 5 = $5 \times 5 \times 5 = 125$.

QUESTION 14

A stack of sports cards contains 3 baseball cards, 3 football cards and 6 hockey cards.

If one card is picked at random, what is the probability that it is a hockey card?

A. $1/3$

B. $1/6$

C. $1/4$

D. $1/2$

Correct Answer: D

Explanation:

There are 12 cards in total. Therefore, the probability of picking a hockey card is $6/12$ or $1/2$.

QUESTION 15

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

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