ASVAB-SECTION-6$^{Q\&As}$

ASVAB Section Six : Mathematics Knowledge

Pass ASVAB ASVAB-SECTION-6 Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

https://www.certbus.com/asvab-section-6.html

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by ASVAB Official Exam Center

⚙ **Instant Download** After Purchase

⚙ **100% Money Back** Guarantee

⚙ **365 Days** Free Update

⚙ **800,000+** Satisfied Customers

QUESTION 1

If 40 is divided by 0.08, the result is _____.

A. 5000

B. 500

C. 50

D. 5

Correct Answer: B

Explanation:

40 divided by 0.08 = 500

QUESTION 2

If a car traveled 200 miles at an average rate of speed of r miles per hour, the time it took for the trip could be written as _____.

A. 200/r

B. r/200

C. 200r

D. r/60

Correct Answer: A

Explanation:

The basic formula for travel is "distance equals rate multiplied by time," or D = rt.

The car traveled 200 miles (D); therefore 200 =rt.

To solve for time, divide both sides of the equation by r. (You are undoing the multiplication.)

200/r = rt/rr

200/r = t (time it took for trip)

QUESTION 3

If x = 12, what is the value of p in this equation? p = x2/6 - 4

A. 24

B. 22

C. 28

D. 20

Correct Answer: D

QUESTION 4

What is another way to write 43?

A. 36

B. 48

C. 56

D. 64

Correct Answer: D

Explanation: 4 x 4 x 4 = 64.

QUESTION 5

x3 x x4 = _____.

A. x12

B. 2x7

C. 2x12

D. x7

Correct Answer: D

Explanation:

If two powers have the same base, they can be multiplied by keeping the base and adding the powers

together.

QUESTION 6

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

A. 48

B. 42

C. 36

D. 45

Correct Answer: D

QUESTION 7

If (8)x2 = 128, then x is _____.

A. either a positive or negative number

B. a negative number

C. a prime number

D. a positive number

Correct Answer: A

QUESTION 8

A square box has 6-inch sides.

What\\'s its volume?

A. 18 cubic inches

B. 216 cubic inches

C. 12 cubic inches

D. 36 cubic inches

Correct Answer: B

Explanation:

Volume equals length x width x height (V =lwh): 6 x 6 x 6 = 216 cubic inches.

QUESTION 9

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 10

If y = 6, then 2y x y = _____.

A. 12

B. 72

C. 18

D. 242

Correct Answer: B

Explanation:

Substitute 6 for y the equation: 2(6) x 6 = 12 x 6 = 72.

QUESTION 11

A cylinder has a diameter of 12 inches and a height of 10 inches. What\'s its approximate volume?

A. 4,521 cubic inches

B. 120 cubic inches

C. 1,130 cubic inches

D. 1,440 cubic inches

Correct Answer: C

Explanation:

For cylinders, Volume = ?r2(h). Since the radius is half the diameter, the problem can be calculated this

way: V = ?(62)10. V = ?(36)10.

If ? is approximately 3.14, then 3.14 x 36 x 10 = 1,130 cubic inches.

QUESTION 12

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 13

If x = 6, y = -2, and z = 3, what is the value of the following expression? (xz + xy)/z2

A. 2/3

B. 12/3

C. 2

D. 6

Correct Answer: A

Explanation:

Calculate the numerator and denominator separately and then perform the division.

QUESTION 14

What is the value of the expression x2 - 5xy + 2y if x = 3 and y = -2?

A. -25

B. -27

C. 32

D. 35

Correct Answer: D

Explanation: Substitute 3 for x and -2 for y in the expression 2 - 5xy + 2y (3)2 - 5(3)(-2) + 2(-2) 9 - 15 (-2) - 4 9 + 30 - 4

QUESTION 15

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 + 12 5x + 7 = −2x 7x + 7 = 0 7x = −7 7?7x = −7?7 x = −1