



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.pass4itsure.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

25 percent of what number is equal to 5?

- A. 5
- B. 20
- C. 40
- D. 50

Correct Answer: B

Explanation:

Divide 5 by 25 and then multiply the answer by 100 to find the percent.

QUESTION 2

The fourth root of 16 is _____.

- A. 4
- B. 1
- C. 3
- D. 2

Correct Answer: D

Explanation:

$2^4 = 16$; the fourth root of 16 is 2.

QUESTION 3

An artist sold 4 of his paintings. These represented 0.05 of all the artwork he had done.

How many paintings had he made at that point?

- A. 100
- B. 80
- C. 50
- D. 20

Correct Answer: B



Explanation:

Let p stand for the total number of paintings the artist has made. The 4 paintings he sold are equal to 0.05 of all his paintings. This can be expressed as an equation:

$$0.05p = 4$$

To solve for p , divide both sides by 0.05. This undoes the multiplication of 0.05 and p and gives you the value of p so that you know the total number of paintings the artist has painted.

QUESTION 4

The base of a cylindrical can is a circle whose diameter is 2 inches. Its height is 7 inches.

How many cubic inches are there in the volume of the can? Use $\frac{22}{7}$ for the value of π .

- A. $\frac{124}{7}$
- B. 22
- C. 44
- D. 88

Correct Answer: B

Explanation:

The volume of a cylinder is equal to the product of its height and the area of its base. The base is a circle.

The area of a circle is πr^2 , where $\pi = \frac{22}{7}$ and r is the radius. Since the diameter is 2 inches, the radius (which is one-half the diameter) is 1 inch.

$$\text{Area of circular base} = \frac{22}{7} \times 1/1 \times 1/1 = \frac{22}{7}$$

The height is 7 inches.

$$\frac{22}{7} \times 7/1 = 22 \text{ cubic inches}$$

QUESTION 5

If $2 + x = 15$, what's the value of x ?

- A. x
- B. $x > 13$
- C. $x = 13$
- D. $x \neq 13$



Correct Answer: C

Explanation:

Solving this equation doesn't require multiplying or dividing by a negative number, so the inequity sign remains the same.

QUESTION 6

If $y^3 + x^3 = y^3 + p^3$, then $x =$ _____.

- A. p
- B. y
- C. $x^3 - y^3$
- D. $y^3 - x^3$

Correct Answer: A

QUESTION 7

What is the value of y when $x = 1$ and $y = 3 + 2x$?

- A. 2
- B. 3
- C. 5
- D. 17

Correct Answer: C

Explanation:

First multiply 2×1 and then add 3.

QUESTION 8

The sum of the measures of the angles of a trapezoid is _____.

- A. 360 degrees
- B. 540 degrees
- C. 180 degrees



D. 720 degrees

Correct Answer: A

Explanation:

All quadrilaterals have angles that total 360 degrees.

QUESTION 9

If $\frac{1}{3}$ of an office staff is on vacation and $\frac{1}{4}$ of those not on vacation are out sick, what fraction of the staff is in the office?

A. $\frac{1}{2}$

B. $\frac{1}{12}$

C. $\frac{1}{6}$

D. $\frac{1}{4}$

Correct Answer: A

Explanation: If $\frac{1}{3}$ are on vacation, then $\frac{2}{3}$ are not. Of those $\frac{2}{3}$ not on vacation, $\frac{3}{4}$ are NOT sick. Therefore $\frac{2}{3} \times \frac{3}{4}$ are in the office (not on vacation and not sick) = $(2 \times 3)/(3 \times 4) = \frac{6}{12} = \frac{1}{2}$

QUESTION 10

Solve for x: $6(x + 5) + 8 = 2$

A. 6

B. 36

C. -6

D. -2

Correct Answer: C

QUESTION 11

A cube has a volume of 512 cubic inches. What is the length of one side of the cube?

A. 8 inches

B. 64 inches

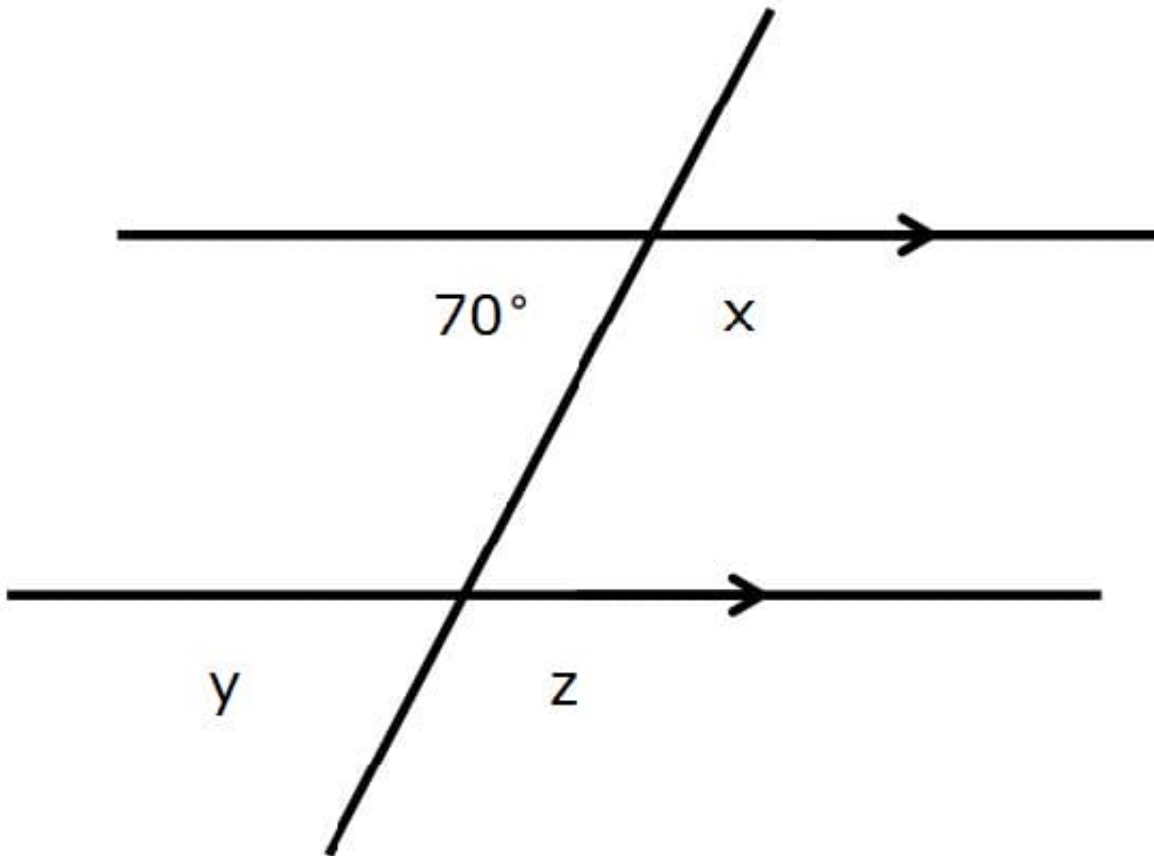
C. 128 inches



D. 16 inches

Correct Answer: A

QUESTION 12



In the diagram of parallel lines provided, what is the measure of angle z?

- A. 180°
- B. 90°
- C. 110°
- D. 70°

Correct Answer: C

QUESTION 13

?25x2 = _____.



- A. x
- B. x^2
- C. $5x^2$
- D. $-5x^2$

Correct Answer: C

Explanation: $25x^2 = (5x)^2 = 5x^2$

QUESTION 14

In the equation $3x + 7y = 21$, at what point is the x-axis intersected?

- A. (7, 0)
- B. (0, 7)
- C. (0, 4)
- D. (4, 0)

Correct Answer: A

Explanation:

The x-axis is intersected at the point where the y-coordinate is 0 ($y = 0$). Substitute 0 for the y variable in the equation.

$$3x + 7y = 21 \Rightarrow 3x + 7(0) = 21 \Rightarrow 3x = 21.$$

Therefore, $x = 7$. The point's coordinates are (7, 0).

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: $5x + 7 = 6(x - 2) - 4(2x - 3)$
 $5x + 7 = 6x - 12 - 8x + 12$
 $5x + 7 = -2x$
 $7x + 7 = 0$
 $7x = -7$
 $x = -1$



VCE & PDF

Pass4itSure.com

<https://www.pass4itsure.com/asvab-section-6.html>

2024 Latest pass4itsure ASVAB-SECTION-6 PDF and VCE dumps Download

[ASVAB-SECTION-6
Practice Test](#)

[ASVAB-SECTION-6 Exam
Questions](#)

[ASVAB-SECTION-6
Braindumps](#)