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Vendor:ASVAB

Exam Code:ASVAB-SECTION-6

Exam Name:ASVAB Section Six : Mathematics
Knowledge

Version:Demo

QUESTION 1

$$(900 \times 3) \div 6 = \underline{\hspace{2cm}}.$$

- A. 45
- B. 450
- C. 55
- D. 550

Correct Answer: B

Explanation:

$$(900 \times 3) \div 6 = 2,700 \div 6 = 450$$

QUESTION 2

In a bag of candy, there are 4 Tootsie Rolls, 3 Lollipops, 5 Hershey Kisses and 6 Starbursts. If you select one piece of candy at random, what is the probability that it will be a lollipop?

- A. 1/18
- B. 3/10
- C. 1/6
- D. 1/4

Correct Answer: C

Explanation:

There are 18 total pieces of candy and 3 lollipops. Therefore, the probability of picking one lollipop is $3/18$ which simplifies to $1/6$.

QUESTION 3

What is the value of $(0.1)^3$?

- A. 0.3
- B. 0.003
- C. 0.1
- D. 0.001

Correct Answer: D

Explanation:

The exponent in $(0.1)^3$ means you use 0.1 as a multiplier 3 times.

$$(0.1)^3 = (0.1) (0.1) (0.1) = 0.001$$

When multiplying decimals, count off one decimal place in the answer for each decimal place in the numbers you multiply.

QUESTION 4

What is 0.3172 rounded to the nearest tenth?

- A. 0.3
- B. 0.32
- C. 0.317
- D. 0.3172

Correct Answer: A

Explanation:

0.32 is rounded to the hundredths place.

0.317 is rounded to the thousandths place.

0.3172 is rounded to the nearest ten-thousandths place.

QUESTION 5

If $F = M \times A$, then what does $A =$ _____.

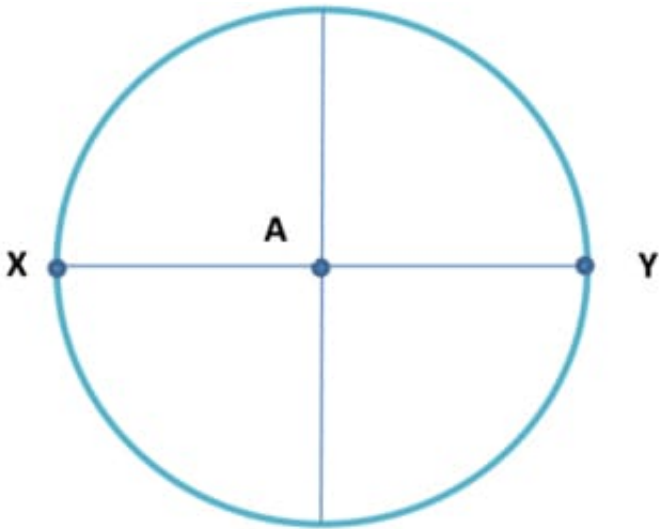
- A. $F \times M$
- B. $F - M$
- C. F/M
- D. M/F

Correct Answer: C

Explanation:

If you divide both sides of the formula by M , then $A = F/M$

QUESTION 6



What is the diameter of the circle with center at point A if the distance from point A to point Y is 7?

- A. 14
- B. 7
- C. 21
- D. 49

Correct Answer: A

QUESTION 7

An aquarium measures 16-inches long x 8-inches deep x 18-inches high.

What's its volume?

- A. 2,304 cubic inches
- B. 128 cubic inches
- C. 42 cubic inches
- D. 288 cubic inches

Correct Answer: A

Explanation:

Volume equals length x width x height ($V = lwh$).

$$16 \times 8 \times 18 = 2,304 \text{ cubic inches.}$$

QUESTION 8

$$\sqrt{49} \div \sqrt{64} = \underline{\hspace{2cm}}.$$

- A. $\frac{1}{4}$
- B. $\frac{1}{2}$
- C. $\frac{1}{3}$
- D. $\frac{7}{8}$

Correct Answer: A

Explanation:

The square root of 49 is 7; the square root of 64 is 8. $7 \div 8 = \frac{7}{8}$.

QUESTION 9

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.

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

The height is 7 inches.

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

QUESTION 10

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 11

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 12

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

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

Correct Answer: D

