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Question: 1

Multiplying a number by $\frac{2}{3}$ is the same as dividing that same number by

- a. $\frac{2}{3}$
- b. $\frac{3}{4}$
- c. 1
- d. $\frac{3}{2}$

Answer: D

Explanation:

Division is the opposite, or the reciprocal, of multiplication.

The reciprocal of $\frac{2}{3}$ is $\frac{3}{2}$

Question: 2

On his last math test, Sam got 2 questions correct for every 3 questions he missed. If the test had a total of 60 questions, how many questions did Sam answer correctly?

- a. 12
- b. 24
- c. 36
- d. 60

Answer: B

Explanation:

The ratio of correct to incorrect answers is 2:3, giving a whole of 5. It takes 12 sets of 5 questions to total 60 questions. To determine how many correct answers Sam gave, multiply 2 by 12, for a total of 24

Question: 3

Solve for m :

$$5m + 8 = 48$$

- a. $m = 5$
- b. $m = 8$
- c. $m = 10$
- d. $m = 18$

Answer: B

Explanation:

Get all of the variables on one side of the equation and solve. First subtract 8 from each side:

$$\begin{aligned}5m + 8 &= 48 \\ &= 5m = 40\end{aligned}$$

Then divide both sides by 5:

$$m = 8$$

Question: 4

Solve $(3x + 1)(7x + 10)$

- a. $12x^2 + 17x + 10$
- b. $21x^2 + 37x + 10$
- c. $21x^2 + 23x + 10$
- d. $21x^2 + 37x + 9$

Answer: B

Explanation:

Use the FOIL method (First, Outer, Inner, Last) to solve this equation:

$$\begin{aligned}(3x + 1)(7x + 10) \\ &= (3x)(7x) + (3x)(10) + (1)(7x) + (1)(10) \\ &= 21x^2 + 30x + 7x + 10\end{aligned}$$

Combine like terms to get the answer:

$$21x^2 + 37x + 10$$

Question: 5

Joseph purchased 12 pounds of peaches at 80 cents per pound. He calculated the total amount as $12 \times \$0.80 = \9.60 . Another method Joseph could have used to calculate the total cost of the peaches is:

- a. $(10 \times \$0.80) + (2 \times \$0.80)$
- b. $(12 \times \$0.40) + (2 \times \$0.80)$
- c. $(12 \times \$0.20) + (12 \times \$0.20)$
- d. $(2 \times \$0.80) + (10 \times \$0.40)$

Answer: A

Explanation:

The answer is expanded to simplify the calculations. The total of Choice A is $\$8.00 + \1.60 , which is the same as the total calculated in the problem.

Question: 6

What is the value of the expression $-3 \times 5^2 + 2(4 - 18) + 33$?

- a. -130
- b. -70
- c. -20
- d. 74

Answer: C

Explanation:

Use the order of operations to find the value for this expression: parentheses, exponents, multiplication and division, addition and subtraction.

$$\begin{aligned} & -3 \times 5^2 + 2(4 - 18) + 33 \\ & -3 \times 5^2 + 2(-14) + 33 \\ & -3 \times 25 + 2(-14) + 33 \\ & -75 + (-28) + 33 \\ & \quad -70 \end{aligned}$$

Question: 7

$10x - 36 + 4x - 6 + x = 3$. What is the value of x ?

- a. 3
- b. 4
- c. 6
- d. 10

Answer: A

Explanation:

Simplify the equation:

$$\begin{aligned} 10x - 36 + 4x - 6 + x &= 3 \\ 15x - 42 &= 3 \\ 15x &= 45 \\ x &= 3 \end{aligned}$$

Question: 8

Hunter planted a combination of tomatoes, broccoli, and bell peppers in a ratio of 3:2:1 in his garden. If the garden had a total of 72 plants, how many tomatoes are in his garden?

- a. 12
- b. 24
- c. 32
- d. 36

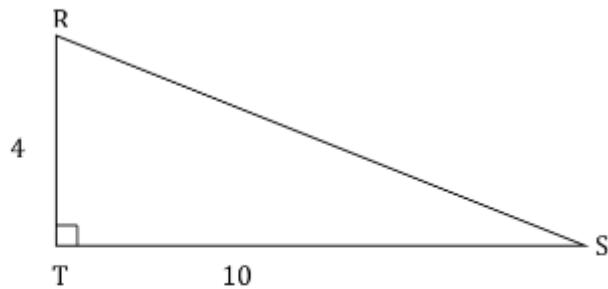
Answer: D

Explanation:

A ratio of gives a whole of 6. It takes 12 sets of 6 plants to total 72 plants. To determine how many tomatoes Hunter planted, multiply 3 by 12, for a total of 36

Question: 9

What is the area of triangle *RST*?



- a. 7
- b. 14
- c. 20
- d. 40

Answer: C

Explanation:

Area of a triangle is one-half base times height.

$$\frac{1}{2} (10)(4) = 20$$

Question: 10

Dividing a number by 2 is the same as multiplying that number by

- a. 2
- b. 1
- c. $\frac{1}{4}$
- d. $\frac{1}{2}$

Answer: D

Explanation:

Division is the opposite, or the reciprocal, of multiplication. If you divide a number by 2, you have to multiply it by $\frac{1}{2}$ to get the same result.



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