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Question: 1

Jamie had \$6.50 in his wallet when he left home. He spent \$4.25 on drinks and \$2.00 on a magazine. Later, his friend repaid him \$2.50 that he had borrowed the previous day. How much money does Jamie have in his wallet now?

- A. \$2.75
- B. \$3.25
- C. \$12.25
- D. \$14.25

Answer: A

Explanation:

Jamie had \$6.50 in his wallet. To solve this problem, you subtract \$4.25 and \$2.00 from that amount: $\$6.50 - \$4.25 - \$2.00 = \0.25 . So, you are left with \$0.25. Then, you add the \$2.50 that your friend had borrowed: $\$0.25 + \$2.50 = \$2.75$. Therefore, Jamie currently has \$2.75 in his wallet.

Question: 2

Two even integers and one odd integer are multiplied together. Which of the following could be their product?

- A. 3.75
- B. 9
- C. 16.2
- D. 24

Answer: D

Explanation:

The integers consist of all positive and negative whole numbers and the number zero. The product of three integers must be an integer, so you can eliminate any answer choice that is not an integer. The product of two even integers is even. The product of an even and odd integer is even. The only even choice is 24, and in fact we can see that $2 \times 4 \times 3 = 24$.

Question: 3

Jerry needs to load four pieces of equipment on to a factory elevator that has a weight limit of 800 pounds. Jerry weighs 200 pounds. What would the average weight of each item have to be so that the elevator's weight limit is not exceeded assuming Jerry accompanies the equipment?

- A. 128 pounds
- B. 150 pounds
- C. 175 pounds
- D. 180 pounds

Answer: B

Explanation:

To solve, first subtract Jerry's weight from the total permitted: $800 - 200 = 600$. Divide 600 by 4 (the four pieces of equipment) to get 150, the average weight.

Question: 4

- A. \$2.25
- B. \$2.60
- C. \$2.80
- D. \$3.10

Answer: B

Explanation:

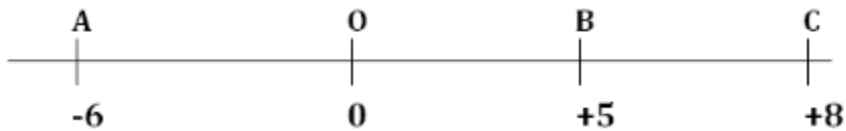
To answer this question, we first determine the total cost of the onions and carrots, since these prices are given. This will equal $2 \times \$3.69 + 3 \times \$4.29 = \$20.25$. Next, this sum is subtracted from the total cost of the vegetables to determine the cost of the mushrooms: $\$24.15 - \$20.25 = \$3.90$. Finally, the cost of the mushrooms is divided by the quantity in lbs to determine the cost per lb:

$$\text{Cost per lb} = \frac{\$3.90}{1.5} = \$2.60$$

Therefore, the mushrooms cost \$2.60 per pound.

Question: 5

In the figure, A, B, and C are points on the number line, and O is the origin. What is the ratio of the distance BC to distance AB?



- A. 3:5
- B. 8:5
- C. 8:11
- D. 3:11

Answer: D

Explanation:
The figure is a number line. So, the distance from point A to point B will be the difference of B - A. This is $5 - (-6) = 5 + 6 = 11$. Also, the distance from point B to point C will be the difference of C - B, which is $8 - 5 = 3$. So, the ratio BC : AB will be 3 : 11.

Question: 6

For the number set {7, 12, 5, 16, 23, 44, 18, 9, Z}, which of the following values could be equal to Z if Z is the median of the set?

- A. 11
- B. 12
- C. 14
- D. 17

Answer: C

Explanation:
The median of a set of numbers is one for which the set contains an equal number of greater and lesser values. Besides Z, there are 8 numbers in the set, so that 4 must be greater and lesser than Z. The 4 smallest values are 5, 7, 9, and 12. The 4 largest are 16, 18, 23, and 44. So Z must fall between 12 and 16. Therefore, the correct answer choice is 14.

Question: 7

In an election in Kimball County, Candidate A obtained 36,800 votes. His opponent, Candidate B, obtained 32,100 votes. 2,100 votes went to write-in candidates. What percentage of the vote went to Candidate A?

- A. 45.2%
- B. 46.8%
- C. 51.8%
- D. 53.4%

Answer: C

Explanation:
Candidate A's vote percentage is determined by the number of votes that he obtained, divided by the total number of votes cast, and then multiplied by 100 to convert the decimal into a percentage.

Candidate A's vote percentage = $\frac{36,800}{36,800 + 32,100 + 2,100} \times 100 = 51.8\%$

Therefore, 51.8% of the vote went to Candidate A.

Question: 8

If c is to be chosen at random from the set {1, 2, 3, 4} and d is to be chosen at random from the set {1, 2, 3, 4}, what is the probability cd will be odd?

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

Answer: A

Explanation:
There are 4 members of the first set and 4 members of the second set, so there are $4(4) = 16$ possible products for cd, cd is odd only when both c and d are odd. There are 2 odd numbers in the first set and two in the second set, so $2(2) = 4$ products are odd and the probability cd is odd is $\frac{4}{16}$ or $\frac{1}{4}$.

Question: 9

If $x = 2y - 3$ and $2x + \frac{1}{2}y = 3$, then $y = ?$

- A. $-\frac{2}{3}$
- B. 1
- C. 2
- D. $\frac{18}{7}$

Answer: C

Explanation:

The given equations form A system of linear equations. Since the first equation is already given in terms of x , it will be easier to solve it using the substitution method. Start by substituting $2y - 3$ for x in the second equation:

$$\begin{aligned}2x + \frac{1}{2}y &= 3 \\2(2y - 3) + \frac{1}{2}y &= 3\end{aligned}$$

Next, solve the resulting equation for y . Distribute the 2 and then combine like y -terms in the result:

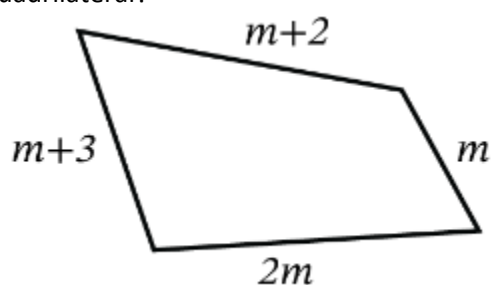
$$\begin{aligned}4y - 6 + \frac{1}{2}y &= 3 \\ \frac{9}{2}y - 6 &= 3\end{aligned}$$

Finally, isolate the variable y by adding 6 to both sides and then dividing both sides by the coefficient of y , which is $\frac{9}{2}$ (or, equivalently, multiply by 2 and divide by 9):

$$\begin{aligned}\frac{9}{2}y &= 9 \\ y &= 2\end{aligned}$$

Question: 10

The figure shows an irregular quadrilateral and the lengths of its sides. Which of the following expressions best represents the perimeter of the quadrilateral?



- A. $m^4 + 5$
- B. $2m^4 + 5$
- C. $4m + 5$
- D. $5m + 5$

Answer: D

Explanation:

The perimeter (P) of the quadrilateral is simply the sum of its sides:

Put together like terms by adding the variables (m -terms) together. Then, add the constants. This gives you $P = 5m + 5$.

In this problem, it seems that some of the variables do not have a number in front of them. However, when there is no coefficient, this means multiplication by 1. So, $m = 1m$. $x = 1x$, and so on.

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