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Question: 1

What is the LCM of 6 and 10?

A. 28
B. 30
C. 15
D. 60

Answer: B

Explanation:
For small numbers like 6 and 10, the LCM can be determined by simply listing the multiples of each number and then looking for the lowest multiple that appears in both lists.
Multiples of 6: 6, 12, 18, 24, 30, …
Multiples of 10: 10, 20, 30, …
Lowest multiple in common: 30

Question: 2

Billy rides his bicycle 5 miles for each morning that he works his paper route. One morning this week, he rode an extra mile to visit with his grandparents. At the end of the week, he had ridden 21 miles. How many mornings did he deliver papers? Support your answer with an equation.

A. 3 mornings; 6x + 3 = 21
B. 4 mornings; 21x — 5 = 22
C. 4 mornings; 5x + 1 — 21
D. 4 mornings; 6x + 3 = 21

Answer: C

Explanation:
To write the equation for this problem, first decide what x represents. We want to know how many days Billy worked his paper route this week, so x (the unknown) will represent the number of days he worked. Now, notice that Billy rides 5 miles each time he works the paper route. This number describes the rate at which he rides daily, so the equation will have 5 multiplied by x.
5x
We are told that one day during the week, Billy rides an extra mile. Because of this, the equation will include the term +1.
5x+1
We also are told that Billy rides a total of 21 miles over the week. This will be the number on the other side of the equation.

5x+1=21
Now, solve for x. Start by subtracting 1 from both sides.
5x+1-1=21-1
5x = 20
Then, divide both sides by 5.

$$\frac{5x}{5} = \frac{20}{5}$$

$$x = 4$$

Billy worked his paper route four mornings this week

Question: 3

Report all decimal places: 3.7 + 7.289 + 4 =

A. 14.989
B. 5.226
C. 15.0
D. 15.07

Answer: A

Explanation:
To solve this problem, you must know how to add a series of numbers when some of the numbers include decimals. As with addition problems 1 and 2, the most important first step is to set up the proper vertical alignment. This step is even more important when working with decimals. Be sure that all of the decimal points are in alignment; in other words, the 7 in 3.7 should be above the 2 in 7.289. Since the final term, 4, is a whole number, we assume a 0 in the tenths place. Similarly, you may assume zeros in the hundredths and thousandths places, if you prefer to have a digit in every relevant place. Then beginning at the rightmost place value (in this case, the thousandths), add the terms together as you would with whole numbers. The decimal point of the sum should be aligned with the decimal points of the terms.

Question: 4

Nora earns S4 per hour at her waitressing job and today received $29 in tips. From her shift today, she earned a total of $53 from both tips and hourly wages. Write an equation from the information given and determine how many hours Nora worked today.

A. 4x + 29= 53; Nora worked 6 hours.
B. 29x 4= 53; Nora worked 2 hours.
C. 53x —29= 4; Nora worked 2 hours.
D. 4x - 29= 53; Nora worked 9 hours.

Answer: A

Explanation:
To write an equation from the information given, first determine "what is the unknown?" In this case, the unknown is how many hours Nora worked. So x will represent the number of hours. Since Nora is paid $4 per hour in wages, part of her pay is calculated by multiplying 4 by x. The rest of her pay comes from tips, which are added on top of her hourly pay. Her total pay per shift can be written as 4x + tips = total.
For today's shift, Nora received $29 in tips and her total pay was $53. The equation is then 4x + 29 = 53.
To solve for x, first subtract 29 from both sides.
4x + 29 — 29 = 53 - 29
4x = 24
Now, divide both sides by 4.

$$\frac{4x}{4} = \frac{24}{4}$$

$$x = 6$$

So, Nora worked six hours today.

Question: 5

Karen goes to the grocery store with $40. She buys a carton of milk for $1.85, a loaf of bread for $3.20, and a bunch of bananas for S3.05. How much money does she have left?

A. $30.95
B. $31.90
C. $32.10
D. $34.95

Answer: B

Explanation:
To solve this problem, you must know how to solve word problems involving decimal subtraction. In this scenario, Karen starts out with a certain amount of money and spends some of it on groceries. To calculate how much money she has left, simply subtract the money spent from the original figure: 40 - 1.85 - 3.20 - 3.05. There is no reason to include the dollar sign in your calculations, so long as you remember that it exists. You cannot subtract the costs of these items at the same time, so you must either subtract them one by one or add them up and subtract the sum from 40. Either way will generate the right answer.

Question: 6

Simplify the following expression:
7 + 16—(5+6x3)-10 x 2

A. -42
B. -20
C. 23
D. 20

Answer: B

Explanation:
Start by calculating the amount in parentheses, completing the multiplication first: 5 + 6 x 3, which is 5 + 18, or 23. Then calculate the product at the end: 10 x 2, which is 20, and complete the equation:
7+16 —23 —20
23 -23 -20
0-20
—20

Question: 7

The gas tank in a lawn mower holds up to one liter of gasoline. The gas can used to fill the gas tank of the mower is measured in gallons. Given that there are approximately 3,785 milliliters in a gallon of water, how much of a gallon of gas is needed to fill an empty gas tank of the lawn mower?

A. 0.26 gal
B. 0.20 gal
C. 3.79 gal
D. 1.90 gal

Answer: A

Explanation:
To convert liters to gallons, first convert milliliters to liters. Converting from one metric unit to another requires moving the decimal point in the given measurement to the left or right to determine the value for the required metric unit The table below shows the prefixes of some of the more common metric units involving volume.

Prefix	kilo-	hecto-	deka-		deci-	centi-	milli-
Symbol	k	h	da		d	c	m
Unit Measure	10^3	10^2	10^1	$10^0 = 1$	10^{-1}	10^{-2}	10^{-3}

When converting a given metric unit that has a smaller unit of measure than the required metric unit, we can move the decimal point for the number having the smaller metric unit the same number of places to the left that it takes to get to the larger metric unit in the table. Since the milliliter metric unit is three places from the liter metric unit, we can move the decimal point that is at the end of 3,785 mL three places to the left to convert it to liters.
3.785. = 3.785
so, 3,785 mL = 3.785 L.

Alternatively, we could multiply 3,785 mL by ten to the negative third power to get:

$$3{,}785 \times 10^{-3} = 3{,}785 \times \frac{1}{1{,}000} = \frac{3{,}785}{1{,}000} = 3.785$$

Thus, there are approximately 3.785 liters in one gallon of water so, 3.785 L = 1 gal.
Then, to see how much of a gallon of water is in one liter, divide both sides of the equality above by 3.785.

$$\frac{3.785 \text{ L}}{3.785} = \frac{1 \text{ gal}}{3.785}$$
$$1 \text{ L} = 0.264 \text{ gal}$$

To the nearest hundredth of a gallon, a liter of water is 0.26 gallons.

Question: 8

Zachary starts his first work shift at 1615. He wants to set an alarm on his phone for 45 minutes before so he knows when to leave for his shift. If his phone uses a 12-hour clock, what time should he set his alarm for?

A. 3:30 PM
B. 4:15 PM
C. 3:30 AM
D. 5:00 AM

Answer: A

Explanation:
To convert a 24-hour time to 12-hour time, start by subtracting 1200, if the number is greater than 1200.
1615 - 1200 = 0415
This number corresponds to the 12-hour time in the afternoon, so Zachary's shift starts at 4:15 PM. Since he wants to set an alarm for 45 minutes before, subtract 45 minutes from 4:15 PM, which is 3:30 PM. Therefore, Zachary should set his alarm for 3:30 PM so he knows when to leave for his shift.

Question: 9

Aaron worked $2\frac{1}{2}$ hours on Monday, $3\frac{3}{4}$ hours on Tuesday, and $7\frac{2}{3}$ hours on Thursday. How many hours did he work in all?

A. $10\frac{5}{6}$
B. $12\frac{1}{2}$
C. $13\frac{1}{4}$

D. $13\frac{11}{12}$

Answer: D

Explanation:
This problem requires you to understand addition involving mixed numbers. The calculation required by this problem is straightforward: In order to derive the number of hours Aaron worked, add up the three mixed numbers. To make this possible, you will need to find the least common multiple of 2, 4, and 3 so that you can establish a common denominator. The lowest common denominator for this problem is 12. You can either add up the whole numbers separately from the fractions or convert the mixed numbers into improper fractions and add them in that form. Either way will yield the correct answer.

Question: 10

Express the answer in simplest form: Dean has brown, white, and black socks. One-third of his socks are white; one-sixth of his socks are black. What fraction of his socks are brown?

A. $\frac{1}{3}$
B. $\frac{2}{6}$
C. $\frac{1}{2}$
D. $\frac{3}{4}$

Answer: C

Explanation:
To solve this problem, you must know how to solve word problems requiring fraction addition and subtraction. You are given the proportions of Dean's socks that are white and black. The best approach to this problem is adding together the two known quantities and subtracting the sum from 1. First you need to find a common denominator for $\frac{1}{3}$ and $\frac{1}{6}$. The lowest common multiple of these two numbers is 6, so convert $\frac{1}{3}$ by multiplying the numerator and denominator by 2. The new equation will be $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$. This sum is equivalent to $\frac{1}{2}$, meaning that half of Dean's socks are either white or black. The other half, then, are brown. If you need to perform the calculation, however, it will look like this: $\frac{2}{2} - \frac{1}{2} = \frac{1}{2}$.

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