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Question: 1

In the year 2000, 35% of the company sales were in electronics. The table below shows how electronic sales have changed for the company over the years. Find the percentage of electronics sold in 2005.

Years	Change
2000 – 2001	–2%
2001 – 2002	–1%
2002 – 2003	+6%
2003 – 2004	–1%
2004 – 2005	+2%

- a. 2%
- b. 11%
- c. 39%
- d. 42%

Answer: C

Explanation:

Let the percentage of sales in electronics be then add each change to the original 35%

$$x = 35 + (-2) + (-1) + (+6) + (-1) + (+2)$$

$$x = (35 + 6 + 2) + (-2 + (-1) + (-1))$$

$$x = (43) + (-4)$$

$$x = 39$$

Question: 2

A woman wants to stack two small bookcases beneath a window that is $26\frac{1}{2}$ inches from the floor. The larger bookcase is $14\frac{1}{2}$ inches tall. The other bookcase is $8\frac{3}{4}$ inches tall. How tall will the two bookcases be when they are stacked together?

- a. 12 inches tall
- b. $23\frac{1}{4}$ inches tall
- c. $35\frac{1}{4}$ inches tall
- d. 41 inches tall

Answer: B

Explanation:

Add to solve. The height of the window from the floor is not needed in this equation. It is extra information. You only need to add the heights of the two bookcases. Change the fractions so that they have a common denominator. After you add, simplify the fraction.

$$\begin{aligned}
 14\frac{1}{2} + 8\frac{3}{4} &= 14\frac{2}{4} + 8\frac{3}{4} \\
 &= 22\frac{5}{4} \\
 &= 23\frac{1}{4}
 \end{aligned}$$

Question: 3

Solve for y in the following equation if $x = -3$

$$y = x + 5$$

- a. $y = -2$
- b. $y = 2$
- c. $y = 3$
- d. $y = 8$

Answer: B

Explanation:

Given $y = x + 5$ and $x = -3$. Substitute the value of x , then solve.

$$\begin{aligned}
 y &= (-3) + 5 \\
 y &= 2
 \end{aligned}$$

Question: 4

Put the following integers in order from greatest to least:

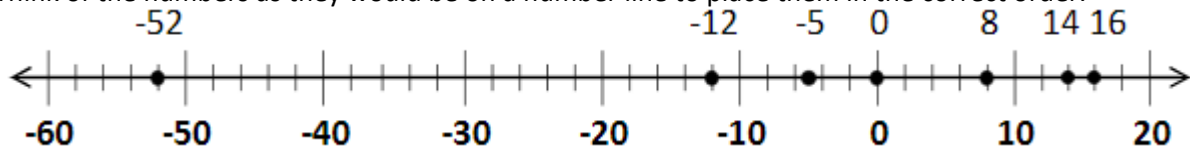
-52, 16, -12, 14, 8, -5, 0

- a. -52, 16, -12, 14, 8, -5, 0
- b. 0, -5, 8, -12, 14, 16, -52
- c. -5, -12, -52, 0, 8, 14, 16
- d. 16, 14, 8, 0, -5, -12, -52

Answer: D

Explanation:

Think of the numbers as they would be on a number line to place them in the correct order.



Question: 5

If number x is subtracted from 27, the result is -5. What is number x ?

- A. 22
- B. 25
- C. 32
- D. 35

Answer: C

Explanation:

In this problem, if you do not know how to solve, try filling in the answer choices to see which one checks out. Many math problems may be solved by a guess and check method when you have a selection of answer choices.

$$\begin{aligned}27 - x &= -5 \\ x &= 32\end{aligned}$$

Question: 6

What is the simplest way to write the following expression?

$$5x - 2y + 4x + y$$

- a. $9x - y$
- b. $9x - 3y$
- c. $9x + 3y$
- d. $x - y$

Answer: A

Explanation:

Add the coefficients of the 'x-terms' together as follows: $5x + 4x = 9x$

Add the coefficients of the 'y-terms' as follows: $-2y + y = -y$

Put the x- and y-terms back into the same equation: $9x - y$.

Question: 7

Find the sum.

$$(3x^2 + x + 3) + 8x^2 + 5x + 16$$

- a. $7x^2 + 29x^2$
- b. $11x^2 + 6x + 19$
- c. $30x + 19$
- d. $(3x^2 + 3x) + 13x^2 + 16$

Answer: B

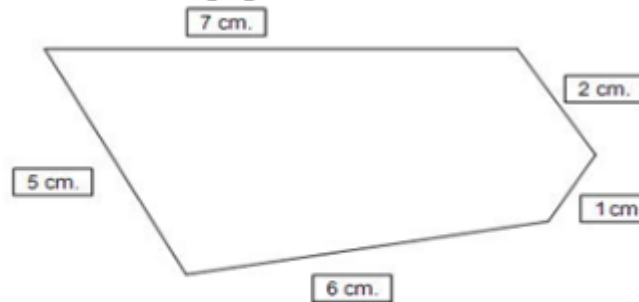
Explanation:

To solve, line up the like terms, as follows:

$$\begin{array}{r} 3x^2 \quad +x \quad +3 \\ + \quad 8x^2 \quad +5x \quad +16 \\ \hline 11x^2 \quad +6x \quad +19 \end{array}$$

Question: 8

What is the perimeter of the following figure?



- a. 15 cm
- b. 18 cm
- c. 21 cm
- d. 36 cm

Answer: C

Explanation:

To find perimeter, add the sides. $7\text{ cm} + 2\text{ cm} + 1\text{ cm} + 6\text{ cm} + 5\text{ cm} = 21\text{ cm}$

Question: 9

To begin making her soup, Jennifer added four containers of chicken broth with 1 liter of water into the pot. Each container of chicken broth contains 410 milliliters. How much liquid is in the pot?

- A. 1.64 liters
- B. 2.64 liters
- C. 5.44 liters
- D. 6.12 liters

Answer: B

Explanation:

Since there are 4 containers of broth: $410\text{ ml} \times 4 = 1640\text{ ml}$

Change to liters: $1640\text{ mL} \times \frac{1\text{ L}}{1000\text{ mL}} = 1.64\text{ L}$

Add the liter of water that was already in the pot: $1.64\text{ L} + 1\text{ L} = 2.64\text{ L}$

Question: 10

According to the table below, which snack is made with no more than 4 grams of sugar and between 4-6 grams of carbohydrates?

Snack (amount per serving)	Grams of Sugar per Serving	Grams of Carbohydrates per Serving
Snappy Cookies (3)	6	8
Snappy Crackers (8)	6	4
Snappy Cheese (2)	0	0
Snappy Twisters (4)	4	5
Snappy Chews (20)	0	8

- a. Snappy Cookies
- b. Snappy Crackers
- c. Snappy Cheese
- d. Snappy Twisters

Answer: D

Explanation:

Snappy Twisters are the only ones that fall into the criteria listed in the question. The use of the words "no more than" is important to notice.

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