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## **Questions & Answers PDF**

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# Latest Version: 6.0

## Question: 1

A man decided to buy new furniture from Futuristic Furniture for \$2600. Futuristic Furniture gave the man two choices: pay the entire amount in one payment with cash, or pay \$1000 as a down payment and \$120 per month for two full years in the financial plan. If the man chooses the financial plan, how much more would he pay?

- A. 51480 more
- B. 51280 more
- C. 51600 more
- D. 52480 more

**Answer: B**

Explanation:

Multiply \$120 by 24 months (a full two years) to get \$2880. Add the thousand dollars for the down payment to get \$3880. Find the difference between the entire amount all at once (\$2600) and the amount paid in the plan (\$3880). To find the difference, you subtract. The difference shows that \$1280 more is paid with the installment plan.

## Question: 2

What is the value of  $r$  in the following equation?

$$29 + r = 420$$

- A.  $r = 29/420$
- B.  $r = 420/29$
- C.  $r = 391$
- D.  $r = 449$

**Answer: C**

Explanation:

Solve the equation as follows:

$$\begin{aligned} 29 + r &= 420 \\ 29 + r - 29 &= 420 - 29 \\ r &= 391 \end{aligned}$$

## Question: 3

If 35% of a paycheck was deducted for taxes and 4% for insurance, what is the total percentage taken out of the paycheck?

- A. 20%

- B. 31%
- C. 39%
- D. 42%

**Answer: C**

Explanation:

To solve, find the sum.  $35\% + 4\% = 39\%$

### Question: 4

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  $x\%$ , then add each change to the original 35%

$$\begin{aligned}
 x &= 35 + (-2) + (-1) + (+6) + (-1) + (+2) \\
 x &= (35 + 6 + 2) + (-2 + (-1) + (-1)) \\
 x &= (43) + (-4) \\
 x &= 39
 \end{aligned}$$

### Question: 5

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: 6

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: 7

Put the following integers in order from greatest to least:

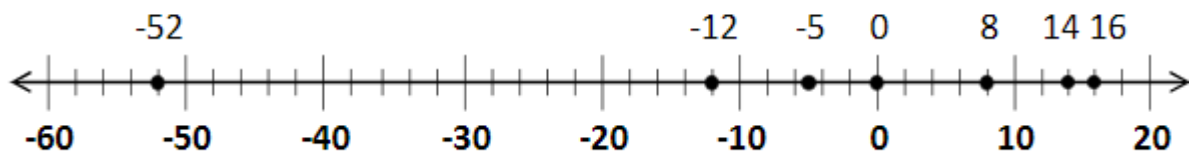
-52, 16, -12, 14, 8, -5, 0

- 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: 8

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: 9

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: 10

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**

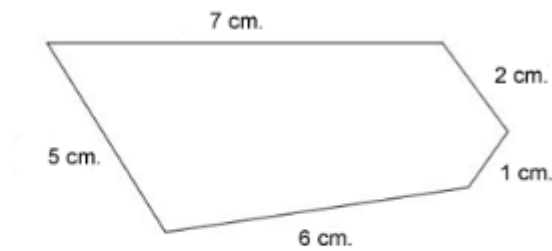
Explanation:

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

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

### Question: 11

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:  $1\text{ cm} + 2\text{ cm} + 7\text{ cm} + 5\text{ cm} + 6\text{ cm} = 21\text{ cm}$ .

$$7\text{ cm} + 2\text{ cm} + 1\text{ cm} + 6\text{ cm} + 5\text{ cm} = 21\text{ cm}$$

### Question: 12

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:  $410\text{ ml} \times 4 = 1640\text{ ml}$

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

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



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