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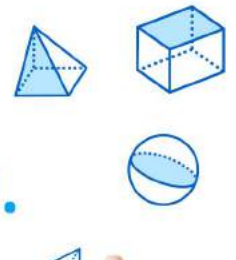

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4th Grade Algebra Worksheets-2

1) Find the value of x, if 2x + 3 = 7.

2) If x = 3, find the value of 6x - 12.

3) Tim and Elizabeth were playing in the garden. If Tim ran three more rounds of the garden than Elizabeth. Find the number of rounds made by Elizabeth if both of them collectively ran 5 rounds.

4) If $x = 2$, find the value of 3x + 5.

5) Find the value of x, if 3x = 12.

6) Solve:

$\frac{x}{4} = 2$.

7) Find the value of x, if 5x + 2 = 12.

8) Find the value of y, if y + 8 = 24.

9) Solve 24 = 8 + 16y.

10) Sam went to a grocery store, he bought 7 apples and 5 oranges. If the price for oranges is $2 per orange and Sam gave a total amount of $24. Find the rate of apples.

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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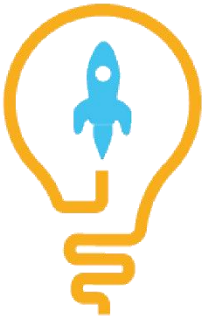
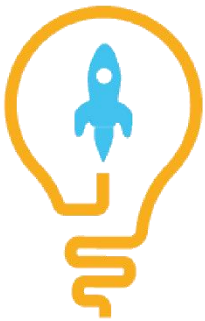


ANSWERS

1)	2
2)	6
3)	1
4)	11
5)	4
6)	8
7)	2
8)	16
9)	1
10)	$2



SOLUTIONS

Complete solution/explanation

1) $2x + 3 = 7 \Rightarrow 2x = 7 - 3 \Rightarrow 2x = 4 \Rightarrow x = 2$

2) $6x - 12 = 6(3) - 12 = 18 - 12 = 6$

3) Let the rounds ran by Elizabeth be x.
Therefore, Tim ran $x + 3$ rounds.
Now, $x + (x + 3) = 5 \Rightarrow 2x + 3 = 5 \Rightarrow x = 1.$

4) $3x + 5 = 3 \times 2 + 5 = 6 + 5 = 11$

5) $3x = 12 \Rightarrow x = \frac{12}{3} \Rightarrow x = 4.$

6) $\frac{x}{4} = 2 \rightarrow x = 4 \times 2 \Rightarrow x = 8$

7) $5x + 2 = 12 \Rightarrow 5x = 10 \Rightarrow x = 2.$

8) $y = 24 - 8 \Rightarrow y = 16.$

9) $24 - 8 = 16y \Rightarrow 16 = 16y \Rightarrow y = 1.$

10) $7x + 5 \times 2 = 24 \Rightarrow 7x = 14 \Rightarrow x = 2.$

FUN FACT

1. Did you know that the equations of algebraic expressions were used by ancient Egyptians more than 5000 years ago!

2. The signs of addition (+) and subtraction (-) were just discovered in the 16th century? Before that, people used words to describe such operations.

3. The area of a circle was first found by using an algebraic equation.