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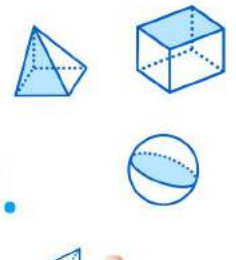

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4th Grade Algebra Worksheets-4

1) Find the value of x, if 4x + 8 = 12.

2) If $x = 3$, find the value of 5x - 12.

3) Tiffany and Edward were playing in the garden. If Tiffany ran five more rounds of the garden than Edward. Find the number of rounds made by Edward if both of them collectively ran 15 rounds.

4) If $x = 2$, find the value of 6x + 4.

5) Find the value of x, if 5x = 45.

6) Solve:
$\frac{x}{6} = 11$.

7) Find the value of x, if 4x + 13 = 21.

8) Find the value of y, if y - 10 = 12.

9) Solve:
17 = 9 + 2y.

10) Shane went to a supermarket, he bought four apples and six oranges. If the price for oranges is $3 per orange and Sam gave a total amount of $26. 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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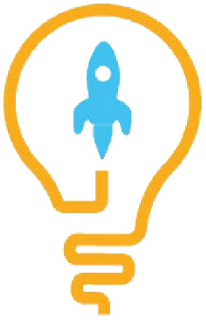
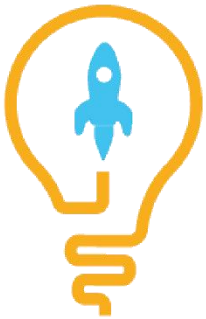


ANSWERS

1)	1
2)	3
3)	5
4)	16
5)	9
6)	66
7)	2
8)	22
9)	4
10)	$2



SOLUTIONS

Complete solution/explanation

1) $4x + 8 = 12 \Rightarrow 4x = 12 - 8 \Rightarrow 4x = 4 \Rightarrow x = 1.$

2) $5(3) - 12 = 3.$

3) Let the rounds run by Edward be x.
Therefore, Tony ran $x + 5$ rounds.
Now, $x + (x + 5) = 15 \Rightarrow 2x + 5 = 15 \Rightarrow x = 5.$

4) $6 \times 2 + 4 = 16.$

5) $5x = 45 \Rightarrow x = \frac{45}{5} \Rightarrow x = 9.$

6) $x = 6 \times 11 \Rightarrow x = 66.$

7) $4x + 13 = 21 \Rightarrow 4x = 8 \Rightarrow x = 2.$

8) $y = 12 + 10 \Rightarrow y = 22.$

9) $17 - 9 = 2y \Rightarrow 8 = 2y \Rightarrow y = 4.$

10) $4x + 6 \times 3 = 26 \Rightarrow 4x = 26 - 18 \Rightarrow x = 2.$

FUN FACT

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

2. The equations of algebraic expressions were used by ancient Egyptians more than 5000 years ago!

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