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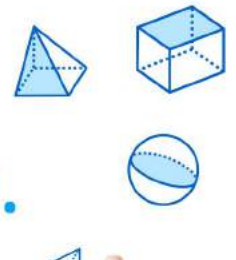

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4th Grade Algebra Worksheets-1

1) Find the value of x, if $3x + 4 = 7$.

2) If $x=2$, find the value of $5x-10$.

3) Tony and Elena were playing in the garden. If Tony ran two more rounds of the garden than Elena. Find the number of rounds made by Elena if both of them collectively ran 6 rounds.

4) If $x = 1$, find the value of $10x + 11$.

5) Find the value of x, if $3x=9$.

6) Solve $\frac{x}{5} = 4$.

7) Find the value of x, if $5x+1=11$.

8) Find the value of y, if $y+7=14$.

9) Solve:

$24 = 16 + 8y$

10) Sam went to a fruit seller, he asked for five apples and seven oranges. If the price for oranges is $2 per orange and Sam gave a total amount of $19. Find the rate of apples.

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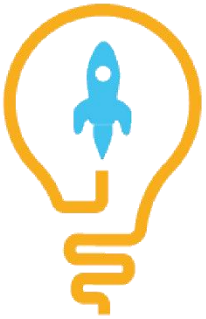
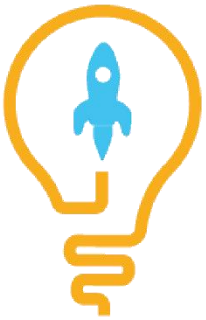


ANSWERS

1)	1
2)	0
3)	2
4)	21
5)	3
6)	20
7)	2
8)	7
9)	1
10)	1

SOLUTIONS

Complete solution/explanation



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

2) $5(2) - 10 = 0.$

3) Let the rounds ran by Elena be x.
Therefore, Tony ran $x + 2$ rounds.
Now, $x + (x + 2) = 6 \Rightarrow 2x + 2 = 6 \Rightarrow x = 2.$

4) $10 \times 1 + 11 = 21.$

5) $3x = 9 \Rightarrow x = \frac{9}{3} \Rightarrow x = 3.$

6) $x = 4 \times 5 \Rightarrow x = 20.$

7) $5x + 1 = 11 \Rightarrow 5x = 10 \Rightarrow x = 2.$

8) $y = 14 - 7 \Rightarrow y = 7.$

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

10) $5x + 7 \times 2 = 19 \Rightarrow 5x = 19 - 14 \Rightarrow x = 1.$

FUN FACT

1. In the very beginning, the area of a circle was first found by using an algebraic equation.
2. 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.
3. The equations of algebraic expressions were used by ancient Egyptians more than 5000 years ago!