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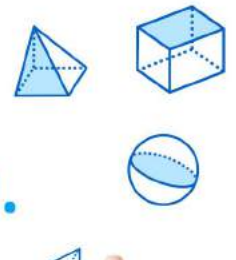

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8th Grade Algebra Worksheets

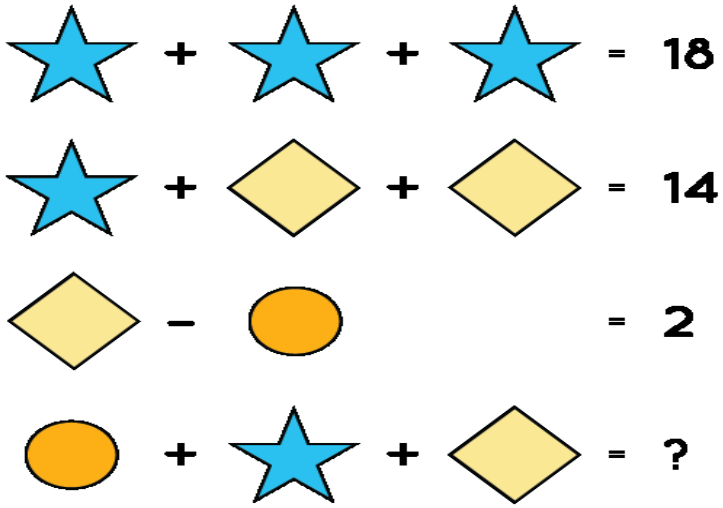
1) Evaluate the following: x + 9 where x = 15 and choose the correct option for x from below:
   a) 22
   b) 23
   c) 21
   d) 24

2) Write an expression and evaluate the answer. The scores in Pete's first two math tests are 75 and 99. By how many points did Pete improve on his second test?

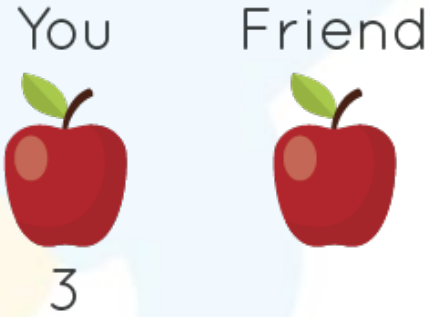
3) Solve the following equations for x:
   x - 4 + 2x = 8

4) Write the following statement as equations/inequalities : 14 is 5 more than 3 times x

5) Solve the riddle given below.



6) Your friend eats 5 apples less than 3 times the amount of apples you do. If you eat 3 apples, find out how much your friend eats?



7) Find an expression for the perimeter of a garden of length 7x and breadth 3x + 5.

8) If yellow marbles are three more than twice the number of red marbles. And there are 'y' yellow

marbles. How many red marbles are there?

9) Form an expression in terms of x:

"4 added to three times a number"

10) If Sara's income is $1500 (monthly) and her expenditures are half of her savings in that month, calculate the amount of her expenditure and her savings?

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- Gary Schwartz

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- 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."

- Barbara Cabrera

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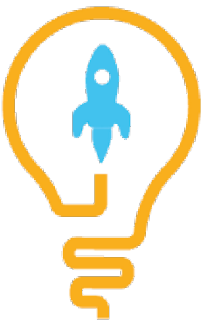
ANSWERS



1)	d) 24
2)	14
3)	$X = 4$
4)	$14 = 5 + 3x$
5)	12
6)	4 apples
7)	$2(7x + 3x + 5) = 2(10x + 5)$
8)	$\frac{y-3}{2}$
9)	$3x + 4$
10)	Expenditure = $\$500$, Savings = $\$1000$

FUN FACT

1. The first book on Algebra was written in the 9th century by Muhammad ibn Musa al-Khwarizmi.

2. Algebra is used everywhere, literally ‘everywhere’ whether it is cooking, laundry, shopping, business, manufacturing, rocket science etc.

3. The word "algebra" is derived from the Arabic word ‘al-jabr’.