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1) Find the sum: (5x + 4 - 2y) + (2y - 7 + 3x)

2) Translate the verbal phrase into an algebraic expression:

   One-third of x increased by four-fifths is equal to a quarter

3) Solve the riddle.

4) Write and simplify an expression that represents the total cost (in dollars) of buying the items shown for each member of a varsity team?(1 T-shirt and a pair of socks per member)

T-shirts   Socks

$10 $x/single socks

5) Bob is x years old. His brother, Matt, is 4 years older than Bob. Their aunt, Lana, is 5 years less than twice Matt's age. Write and simplify an expression that represents Lana's age in years.

6) Use the Distributive Property to simplify the given expression:

$$\frac{2}{3}(5 + 3x - 11)$$

7) The perimeter of a rectangular garden is numerically equal to thrice the area of the rectangle. If the width of the rectangle is 1cm, then what is the length of the rectangle?

1 cm

8) Find the difference: (2x + y - 9) - (8 + 6y - 5x)

9) In a game, 5 points are awarded for every correct answer and 3 is subtracted for every wrong answer. If Mandy plays the 20 rounds of the game and gets 20 points, find the number of correct answers.

10)   If x = 10 and x+y = 13, then 20xy =

   a) 650
   b) 660
   c) 600
   d) 300

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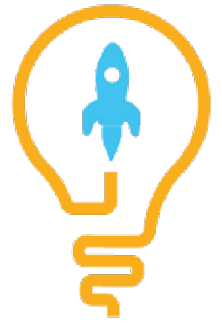
- Kirk Riley

"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)	$8x-3$
2)	$\frac{1}{3}x+\frac{4}{5}=\frac{1}{4}$
3)	25
4)	\$(10+2x)
5)	$2x+3$ years
6)	$\frac{10}{3} + 2x - \frac{22}{3}= 2x-4$
7)	0.5 cm
8)	$7x - 5y +17$
9)	10
10)	c) 600

1. The word "algebra" is derived from the Arabic word 'al-jabr'.

2. Algebra was developed by the Greeks and Babylonian mathematicians.

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