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5th Grade Algebra Worksheets

1) Solve for m:

$$m \times 4 + 9 - 2 = 27$$

- a) $m = 4$
- b) $m = 5$
- c) $m = 3$
- d) $m = 6$

2) Form an expression in terms of p:

Five times a number subtracted from 8

3) If Jack's income is twice his expenditures, calculate his savings. Take expenditures as y .
[Hint: Income = Expenditure + Savings]

4) Observe the pattern carefully and answer the questions written below.

Stage 1



Stage 2



Stage 3



Stage 4



- a) How many sticks would be required in stage-5?
- b) How many sticks would be required in stage-20?

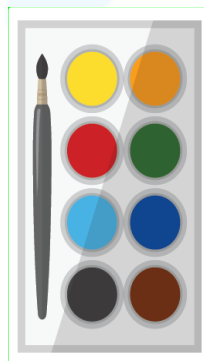
5) Complete the following table:

Statement	Expression
a) 7 times a number added to 34	
b)	$90 + 9x$
c) 9 times a number subtracted from 5 times of another number	

6) Solve for x:

$$\frac{3}{4}x + 2 = 14$$

7) Rose has bought stationery of \$40. If she has bought colors of \$12, pens of \$13 and some colored sheets and gave \$50 to the shop owner. Find out the price of colored sheets and the money that Rose will get back from the owner?



8) Emma's age is 11 years. If her mother is 2 more than thrice of her age, find out the age of her mother?



9) A school library has 450 math books. If English literature books are 5 less than twice the number of math books, find out the number of English literature books in the library?



10) Given that $\text{speed} = \text{Distance} / \text{Time}$. Complete the given table:

Speed (miles/hour)	Distance(miles)	Time(hours)
5	25	
12		7

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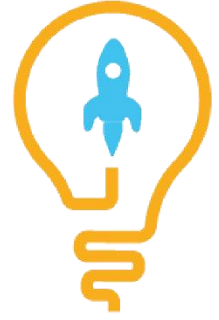
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**ANSWERS**

1)	b) $m = 5$
2)	$8 - 5p$
3)	Y
4)	a) 15 sticks b) 60 sticks
5)	a) $7x + 34$ b) 9 times a number added to 90 c) $5x - 9y$
6)	16
7)	\$15, \$10
8)	35 years
9)	895
10)	a) 5 hours b) 84 miles

FUN FACT

1. The roots of [algebra](#) are back to 1900 BC when it was traced that it was Babylonians who came up with Algebra.
2. The signs of (+) and (-) were discovered in the 16th century. Before that, people use words to express [addition](#) and [subtraction](#) or positive and negative values which was a time consuming process.
3. People have a tendency to use only x as the variable, but any alphabet or symbol or object can be used to denote a variable.

