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## Pre Algebra Worksheet-1

- 1) Find the missing value:  $13 \times \_\_ = 39$
- 2) Find the value of five times the number found by subtracting six and three.
- 3)  $10 \times (\_\_) = 1 + 7 \times 7$ . Fill in the blank.
- 4) Mary and Susan had a pizza of 8 slices. If Mary had thrice the number of slices than Susan, find the slices ate by Susan.



- 5) When 5 is added to me, my value becomes 12. Find me!
  - a. 4
  - b. 5
  - c. 6
  - d. 7
- 6) Evaluate the following:  $\frac{a}{b}$  where  $a = 21$ ,  $b = 7$

7) 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-8?

8) Ten friends went to the restaurant. The total bill was \$56. If nine of the friends paid \$40, how much would the tenth person have to pay?

9) Solve the given riddle.

$$\square + \square = 12$$

$$\square \times \triangle + \triangle = 21$$

$$\square \times \triangle - \circ \times \square = \square$$

$$\circ = ?$$

10) Find the value of the symbol '#'.  
 # + 45 = 54

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in an interesting way,  
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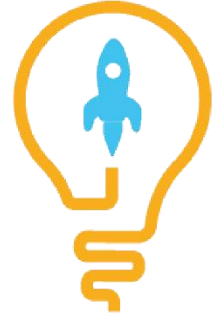
- Kirk Riley

"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."

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**ANSWERS**

1)	3
2)	15
3)	5
4)	2
5)	d) 7
6)	3
7)	a) 15 b) 24
8)	\$16
9)	2
10)	9

## FUN FACT

1. When you start thinking logically rather than computing the [data](#), you are actually using ideas of algebra to find solutions.
2. In [algebra](#), we can express a missing value by using a random letter or symbol which is known as a variable.
3. In order to solve [equations](#) where some missing element is given, we try to solve it backwards – hence getting the value of the unknown.

