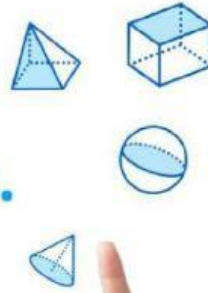


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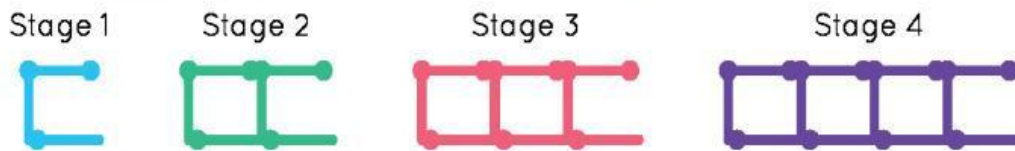
## Algebra Worksheet-1

1) Which values of  $x$  and  $y$  satisfy the given equation:  
 $5x - 10 = y - 34$

- a)  $x=7, y=3$
- b)  $x=39, y=3$
- c)  $x=2, y=36$
- d)  $x=3, y=39$

2) Evaluate the following:  $\frac{a}{b}$  where  $a = 21, b = 7$

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



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

4) Three friends went to the restaurant. The total bill was \$56. If two of the friends paid \$40, how much would the third person have to pay?



- 5) How many packs of orange juice can you buy with \$234, if one pack costs \$13?



Price-\$13

- 6) Solve the riddle given below.

$$\square + \square = 12$$

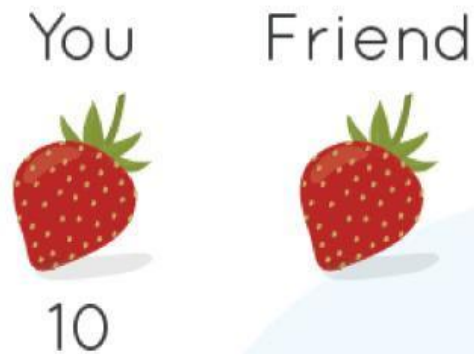
$$\square \times \triangle + \triangle = 21$$

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

$$\circ = ?$$

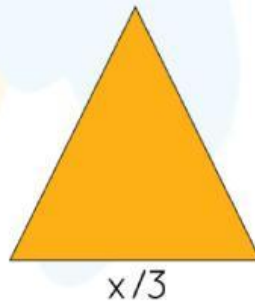
- 7) Number of girls is twice the number of boys in the class. If the total number of students is 45, find the number of girls and boys?

8) Your friend eats 25 strawberries more than the number of strawberries you do. If you eat 10 strawberries, find out how much your friend eats?



9) Identify the coefficients and constants in the following expression:  $3 + 7x$

10) ABC is an equilateral triangle with each side measuring 15. Find the value of  $x$ .



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- Barbara Cabrera

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**ANSWERS**

1)	d) $x=3$ , $y=39$
2)	3
3)	a) 15 sticks, b) 60 sticks
4)	\$16
5)	18 packs
6)	1
7)	Girls=30, Boys=15
8)	35 strawberries
9)	Coefficient=7, constant=3
10)	45

## FUN FACT

1. Algebra was developed by the Greeks and Babylonian mathematicians.
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. Algebra is a Latin word derived from the Arabic word 'Al-Jabr'.

