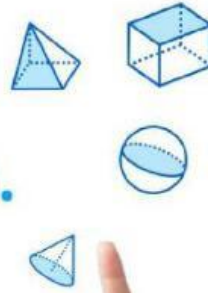


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Algebra Worksheet-1

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.

Stage 1



Stage 2



Stage 3



Stage 4



- 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.

$$\square + \square = 12$$

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

$$\square \times \triangle - \bigcirc \times \square = \square$$

$$\bigcirc = ?$$

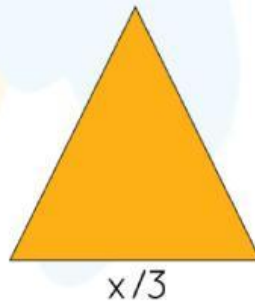
- 7) Number of girls is twice the number of boys in the class. If the total number of students is 45, find the number of girls and boys?

- 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?

You	Friend
	
10	

- 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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**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'.

