

# INTERNATIONAL INDIAN SCHOOL, RIYADH.

MATHEMATICS WORKSHEET- (2017 - 2018) / Class: VI

## CHAPTER 11 - ALGEBRA

- If  $l$  is the side of the equilateral triangle then perimeter = \_\_\_\_\_.  
a)  $l$                       b)  $3l$                       c)  $l3$                       d)  $2l$
- The solution of the equation  $3y = 24$  is  $y =$  \_\_\_\_\_.  
a) 5                      b) 2                      c) 8                      d) 1
- The perimeter of a regular pentagon of side 'a' = \_\_\_\_\_.  
a) 40                      b)  $5a$                       c)  $a^2$                       d) 6
- 5 added to the product of 12 and  $x$  is written as  
a)  $5x + 12$       b)  $12x + 5$       c)  $12 + 5x$       d)  $5 + 12 + x$
- State which of the following are equations. Give reasons.  
a)  $15 = x + 6$   
b)  $(P - 8) > 11$   
c)  $x - 5 = 0$   
d)  $\frac{9}{3} = 3$   
e)  $P + 15 > 29$   
f)  $7q < 15$
- Give expressions for the following.  
a)  $-y$  divided by 5 and then added to 2.  
b) 5 added to thrice of  $x$ .  
c) 15 added to the product of 5 and  $y$ .  
d) Product of -7 and  $y$  added to 5.  
e) 5 times  $x$  subtracted from -12.  
f)  $x$  multiplied by -2 and then added to 5.

7. Find the solution of the following;

a)  $Y + 7 = 5$

b)  $7k = 35$

c)  $2a + 5 = 11$

d)  $12y - 6 = 30$

e)  $3y = 18$

f)  $\frac{m}{8} = 4$

g)  $\frac{3m}{5} = 6$

h)  $x + 3 = 8$

8. Pick out the solution from the values given in the bracket. Show that other values do not satisfy the equation.

a)  $2m - 6 = 10$  (10, 5, 8, 3)

b)  $\frac{3}{4}m = 6$  (5, 8, 7, 6)

c)  $3q = 18$  (6, 5, -4, 3)

d)  $18x - 36 = 0$  (-1, 1, 2, 0)

9. Raja is 5 years younger than Sudha. Find an expression for Raja's age in terms of Sudha's age.

10. If the diameter (**d**) is a line passes through the centre and having its end points on the circle and radius (**r**) is the distance of the circle and its centre then write radius (**r**) in term of its diameter (**d**).

11. The side of a regular octagon is  $l$ . Express the perimeter of the octagon using  $l$ .

12. The length of rectangular park is 3 metres more than 2 times the breadth of the park. What is the length if the breadth is  $b$  metres?

13. Ritu gave 4 chocolates to each of her friends as a return gift for her birthday party, If 3 chocolates were left over; find a rule for the number of chocolates she had in terms of the number of friends who came for her party.

14. Make 4 expressions with the help of 5 and  $x$ .

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**ANSWER KEY**

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1.  $3l$

2.  $y = 8$

3.  $5a$

4.  $12x + 5$

5.

a) Yes, this is an equation with variable 'x'

b) No, this is not an equation, since it has no equal sign in between LHS and RHS.

c) Yes, this is an equation with variable 'x'

d) No, this is an equation with number.

e) No, this is not an equation, since it has no equal sign in between LHS and RHS

f) No, this is not an equation, since it has no equal sign in between LHS and RHS

6.

a)  $-\frac{y}{5} + 2$

b)  $3x + 5$

c)  $5y + 15$

d)  $-7y + 5$

e)  $-12 - 5x$

f)  $-2x + 5$

7.

a)  $y = -2$

b)  $k = 5$

c)  $a = 3$

d)  $y = 3$

e)  $y = 6$

f)  $m = 32$

g)  $m = 10$

h)  $x = 5$

8.

a)  $m = 8$

b)  $m = 8$

c)  $q = 6$

d)  $x = 2$

9.  $x - 5$

10.  $r = \frac{d}{2}$

11.  $8\ell$ .

12.  $(2b + 3)$  metres

13.  $(4n + 3)$  where 'n' is number of friends.

14.  $5 + x$  ,  $5 - x$  ,  $5x$  ,  $\frac{x}{5}$