



## INDIAN SCHOOL AL WADI AL KABIR

PO 513, PC 117, WADI KABIR, SULTANATE OF OMAN

### SUMMER MATHEMATICS HOLIDAY HOMEWORK [2018-19] CLASS-VIII

1. PQRS is a parallelogram. One pair of its adjacent angles are in the ratio 2:7. Find all 4 angles of it.  $40^\circ, 140^\circ, 40^\circ, 140^\circ$
2. If three angles of a quadrilateral are  $95^\circ, 75^\circ$  and  $30^\circ$ . Find its fourth angle.  $160^\circ$
3. Solve:  $\frac{x}{2} - \frac{2}{3} = \frac{3x}{4} - \frac{4}{5}$   $\frac{8}{15}$
4. ABCD is a rhombus in which diagonal AC bisects diagonal BD at 'O' such that  $AO = 3\text{cm}$ ,  $BO = 4\text{cm}$ . Find the measure of each side.  $5\text{ cm}$
5. PQRS is a trapezium with  $PQ \parallel RS$ . If  $\angle P = 120^\circ$ , find  $\angle S$  and if  $\angle R = 65^\circ$ , find  $\angle Q$   $60^\circ, 115^\circ$
6. Name the polygon and find its angle sum if each exterior angle is  $120^\circ$   $\text{Triangle}, 180^\circ$
7. Insert 5 rational numbers between  $\frac{-3}{4}$  and  $\frac{-7}{12}$
8. Draw a number line to represent the given rational numbers on it.  
 $\frac{-6}{11}, \frac{-3}{11}, 0, 1, \frac{5}{11}, -1$
9. Use property to solve:  $\frac{7}{5} \times \frac{-2}{7} + \frac{7}{5} \times \frac{7}{4} - \frac{4}{5}$   $\frac{5}{4}$
10. Find the value of (i)  $[\frac{-3}{7}]^{-2}$  (ii)  $(3)^{-4}$   $\frac{49}{9}, \frac{1}{81}$

11. Find the multiplicative inverse of  $5^{-2}$  and  $(\frac{3}{11})^{-5}$   $5^2, (\frac{3}{11})^5$
12. Sum of three consecutive numbers is 888, find each of them. 295, 303, 311
13. Write  $7.89 \times 10^{-5}$  in usual form and 0.00000079 in standard form. 0.0000789  
 $7.9 \times 10^{-7}$
14. Expand using exponents: 137.1075
15. Construct a quadrilateral ABCD with AB = 3cm, BC = 4cm, CD = 5cm, DA = 5cm, AC = 5cm
16. Construct a quadrilateral DEFG with DE = 4 cm, EF = DF = 7.5cm, DG = EG = 5cm
17. Construct a quadrilateral PQRS with PQ = 5cm,  $\angle Q = 60^\circ$ , QR = 6.5 cm,  $\angle R = 90^\circ$ , RS = 4 cm
18. Construct
- (i) A square with each side = 5.6 cm
  - (ii) A rectangle ABCD, with AB = 7.5cm, BC = 3.5cm
  - (iii) A rhombus ABCD, with AC = 8cm, BD = 5cm
19. Evaluate :  $5^2 + 4^3 - (\frac{1}{89})^{-1}$  0
20. Find the sum of the multiplicative inverse of  $(\frac{1}{5})^{-2}$  and additive inverse of  $\frac{1}{25}$  0

Submission Date: 7th Aug 2018

All the Best!