



**INDIAN SCHOOL AL WADI AL KABIR**  
**DEPARTMENT OF MATHEMATICS (2015-2016)**

**SUMMER HOLIDAY HOME WORK**

**NAME OF THE STUDENT:** ..... **CLASS: VIII SEC:** ..... **ROLL NO:** .....

- The sum of three consecutive multiples of 4 is 444. Find the multiples.
- The interior angle of regular polygon is  $156^{\circ}$ . Find the number of sides of the polygon?
- Find the measure of each interior and exterior angle of a regular polygon of 9 sides.
- The measure of two adjacent angles of a parallelogram are in ratio 7:2. Find the measure of each angle of the parallelogram.
- The measure of the angles of a quadrilateral PQRS are respectively in the ratio 1:2:3:4. Find the measure of each angles of quadrilateral.
- Solve the equation  $\frac{2x+1}{3x-2} = \frac{9}{10}$
- A bag contains 5 red balls, 8 white balls and 4 green balls. Find the probability of choosing  
a) Red ball b) white ball c) not green ball
- In a city the weekly observations made in a study on the cost of living index are given below. Represent the following data using histogram

Cost of living index	140 -150	150-160	160-170	170-180	180-190	190-200
Number of students	5	10	14	9	6	2

- The number of students admitted in different faculties of a college are given below:

Faculty	Science	Arts	Commerce	Law	Education
No. of students	1000	1200	650	450	300

Draw a pie-chart to represent the above information.

- From the frequency distribution table of 60 workers showing their daily earnings, find:

Daily earnings (in ₹ )	80-100	100-120	120-140	140-160	160-180	180-200	200-220	220-240
No. of workers	10	12	8	9	6	7	6	2

- How many workers got less than ₹ 120?
  - How many workers get equal to or more than ₹ 200?
  - What is the size of the class interval?
  - In which earning group do the maximum numbers of workers line?
- The length of a rectangle is 15 more than its breadth and perimeter is 150m. Find the length and breadth of rectangle.
  - Construct a rhombus whose diagonals are 6cm and 8cm.
  - The sum of the digits of a two digit number is 8. If the digits are reversed the new number formed is 18 more than original number. What is the original number?