

**DSB INTERNATIONAL PUBLIC SCHOOL**

RISHIKESH (UTTARAKHAND)

**Class - VIII**

<b>Subject</b>	<b>SUMMER ASSIGNMENT(2019-20)</b>
<b>MATHS</b>	<p>(1) MAKE A P.P.T ON THE FOLLOWING TOPICS (8-10 SLIDES)</p> <p>(A) PROPERTIES OF NATURAL NUMBERS (<b>ROLL NO - 1 TO 5</b>)</p> <p>(B) PROPERTIES OF WHOLE NUMBER (<b>ROLL NO - 6 TO 10</b>)</p> <p>(C) PROPERTIES OF INTEGERS(<b>ROLL NO - 11 TO 15</b>)</p> <p>(D) PROPERTIES OF RATIONAL NUMBERS(<b>ROLL NO - 16 TO 20</b>)</p> <p>(E) POLYGON AND ALL TYPES OF POLYGON (<b>ROLL NO - 21 TO 25</b>)</p> <p>(F) QUADRILATERAL AND ALL TYPES OF QUADRILATERAL(<b>ROLL NO-26 TO 30</b>)</p> <p>(G) ALL DEFINITIONS OF CH-3 ( QUADRILATERALS) (<b>ROLL NO-31 TO 35</b>)</p> <p>(H) PROPERTIES OF ALL TYPES OF QUADRILATERALS.(<b>ROLL NO-36 ONWARDS</b>)</p> <p>(2) TO SOLVE WORKSHEETS BASED ON CH-1, CH-2 , CH-3</p> <p>(3) ALL TRY THESE OF CH-1 , CH-2 , CH-3</p> <p>(4) TO LEARN AND WRITE SQUARES OF 1 TO 30 AND CUBES OF 1 TO 10</p> <p><b>NOTE:</b>(1) ATTACH THE HARD COPIES (NO CD'S) OF P.P.T AND WORKSHEETS IN A STICK FILE.</p> <p>(2) MAKE A SEPARATE THIN NOTEBOOK FOR SOLVING SUMS WRITING SQUARES AND CUBES</p>
<b>ENGLISH</b>	<p>* FIND OUT THE NAMES OF THE PRIZES AWARDED TO WRITERS. ALSO MAKE A LIST OF SOME OF THE LITERARY ICONS WHO HAVE WON THE NOBEL PRIZE FOR LITERATURE IN THE LAST TEN YEARS AND MENTION THEIR NATIONALITIES.</p> <p>* USE A SCRAP BOOK TO DESIGN A 10 PAGE TRAVELOGUE.THE FOLLOWING POINTS CAN BE INCLUDED:(A)PLACES YOU VISITED DURING HOLIDAYS , (B) FOOD AND CULTURE , (C) PEOPLE &amp; LANGUAGE , (D) SPECIALS THINGS ABOUT THAT PLACE , (E) WHAT YOU LIKED BEST ABOUT THAT PLACE.</p> <p>* READ A GOOD STORY BOOK &amp; SUBMIT THE REVIEW OF THE STORY TO PRINCIPAL SIR</p>
<b>SCIENCE</b>	<p>*WHAT ROLE DOES FRICTION PLAY IN THE SPORT OF YOUR CHOICE . COLLECT SOME PICTURES OF THAT SPORT IN ACTION WHERE FICTION ITS EITHER SUPPORTING IT OR OPPOSING IT.DISPLAY THESE PICTURES WITH PROPER CAPTIONS ON THE ACTIVITY NOTEBOOK.</p> <p>* MAKE CHARTS ON FOLLOWING TOPICS ACCORDING TO ROLL NO ALLOTTED.</p> <p><b>(ROLL NO 01 TO 10)</b> MICRO-ORGANISMS AND THEIR USES (ADVANTAGES &amp; DISADVANTAGES)</p> <p><b>(ROLL NO 11 TO 20)</b>SAY NO TO PLASTICS (SLOGANS) WITH PICTURES.</p> <p><b>(ROLL NO 21 TO 30)</b> GANGA ACTION PLAN (GAP)(SHOW UPDATES)</p> <p><b>(ROLL NO 31 TO 40)</b> SHOW VARIOUS DISCOVERIES OR INVENTIONS WITH SCIENTIST(CAN PASTE PICTURES)</p>
<b>ART &amp; CRAFT</b>	<p>1) Make a decorative ladies purse by using handmade sheet and any decorative material. (roll no 1 to 10)</p> <p>2) Make a beautiful big size house boat by using cardboard and decorate with light (roll no 11 to 20)..</p> <p>3) Make a beautiful Rajasthani puppet by using cotton clothes and any other material (roll no 21 to 30).</p> <p>4) Make decorative jewellery with box by using m. seal, fabric colour and any decorative stone (roll no 31 to last).</p>



# DSB INTERNATIONAL PUBLIC SCHOOL

Rishikesh (Uttarakhand)

Ch-1 RATIONAL NUMBER

WORKSHEET – 1

CLASS – VIII

SUBJECT - MATHEMATICS

---

Q1. What is rational number?

Q2. Compare the following numbers and put the sign  $>$ ,  $<$  or  $=$ .

i)  $\frac{2}{3}$  and  $\frac{3}{4}$

ii)  $-\frac{4}{3}$  and  $\frac{8}{7}$

Q3. Write two rational numbers between  $\frac{1}{3}$  and  $\frac{4}{5}$ .

Q4. Write each of the following number with positive denominator.

i)  $\frac{5}{-8}$

ii)  $\frac{3}{-5}$

Q5. Write the following numbers in increasing order.

$$\frac{-10}{11}, \frac{-19}{22}, \frac{-23}{33} \text{ and } \frac{39}{44}$$

Q6. Write True/False

- i) A negative number always lies to the left of 0 on the number line.
- ii) Negative and positive numbers always lie on the opposite sides of 0 on the number line.

Q7. Write additive inverse of  $\frac{-1}{3}$ .

Q8. Write multiplicative inverse of  $\frac{15}{-4}$ .

Q9. Solve the following:

$$\left(\frac{4}{3} + \frac{-2}{3}\right) + \left(\frac{3}{5} + \frac{-11}{5}\right)$$

Q10. If sum of two numbers is  $\frac{-1}{2}$  and one of the numbers is  $\frac{5}{6}$ , then find the other number.

Q11. Find 10 rational numbers between  $\frac{-2}{3}$  and  $\frac{1}{4}$ .

Q12. Insert 100 rational numbers between  $\frac{-3}{13}$  and  $\frac{9}{13}$ .

Q13. Represent  $\frac{5}{3}$  and  $\frac{-5}{3}$  on the number line.

Q14. Is zero a rational number? Can you write it in the form of  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ .

Q15. Express each of the following numbers in the form  $\frac{p}{q}$ .

- i) 0.15                      ii) 0.675                      iii) 0.00026



# DSB INTERNATIONAL PUBLIC SCHOOL

**Rishikesh (Uttarakhand)**

**Ch – 2 LINEAR EQUATION**

**WORKSHEET – 2**

**CLASS – VIII**

**SUBJECT - MATHEMATICS**

Q1. What is linear equation?

Q2. Find the value of x for the following equations:

i)  $8x + 3 = 27 + 2x$

ii)  $5x + 7 = 2x - 8$

Q3. If  $\frac{2}{3}$  of the number is 20 less than the original number then find the number.

Q4. If length of a rectangle is 7 more than its breadth and its perimeter is 30m then find its length and breadth.

Q5. The sum of three consecutive integers is 51 then find the numbers.

Q6. If the number of girls in a class is 8 less than the number of boys and the ratio of number of boys to number of girls is 7:5 then find the number of boys and number of girls.

Q7. The perimeter of an equilateral triangle is 18 cm. find the length of each side.

Q8. Solve for n:

$$\frac{n}{n+15} = \frac{4}{9}$$

Q9. If the ratio of the present age of A and B is 5:7 and after 4 years the ratio of their ages will be 3:4 then find their present ages.

Q10. Solve for x:

iii)  $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$

Q11. Solve the equation  $\frac{2x-1}{3x+5} = 5$  and check your answer.



Q12. Find the positive value of  $x$  which satisfies the equation.

$$\frac{x+5}{2-x} = \frac{-3}{2}$$

Q13. The present ages of Ram and Rahim are in the ratio 4:3. Four years later their ages will be in the ratio 6:5. What are their present ages?

Q14. The sum of the digits of a two digit number is 12. The number obtained by interchanging the digits exceeds the original number by 54. Find the original number.

Q15. The sum of three consecutive multiples of 8 is 888. Find these multiples.



# DSB INTERNATIONAL PUBLIC SCHOOL

Rishikesh (Uttarakhand)

Ch – 3 UNDERSTANDING QUADRILATERALS

WORKSHEET – 3

CLASS – VIII

SUBJECT - MATHEMATICS

Q1. Calculate the sum of angles of a polygon with:

- i) 10 sides
- ii) 12 sides

Q2. Find the number of sides in a polygon if the sum of its interior angles is:

- i)  $900^\circ$
- ii)  $1620^\circ$

Q3. Is it possible to have a polygon, whose sum of interior angles is:

- i)  $870^\circ$
- ii)  $2340^\circ$

Q4. Find the sum of exterior angles obtained on producing in order, the sides of a polygon with:

- i) 7 sides
- ii) 10 sides

Q5. Two angles of a hexagon are  $120^\circ$  and  $160^\circ$ . If the remaining four angles are equal, find each equal angle.

Q6. Find the no. of sides in a regular polygon, if its each interior angle is:

- i)  $160^\circ$
- ii)  $135^\circ$

Q7. Is it possible to have a regular polygon whose each exterior angle is:

- i)  $80^\circ$
- ii) 40% of a right angle

Q8. The ratio between the exterior angle and the interior angle of a regular polygon is 1:4, find the number of sides in the polygon.

Q9. Three of the exterior angles of a hexagon are  $40^\circ$ ,  $51^\circ$  and  $86^\circ$ . If each of the remaining exterior angle is  $x^\circ$ , find the value of  $x$ .

Q10. The interior angles of a pentagon are in the ratio 4:5:6:7:5. Find each angles of the pentagon.

Q11. Define convex and concave polygon.

Q12. ABCD is a parallelogram whose diagonals intersects each other at right angles. If the length of the diagonals is 6 cm. and 8 cm., find the lengths of all the sides of a parallelogram.

Q13. The diagonals of a rhombus are in the ratio 3:4. If its perimeter is 40 cm., find the lengths of the sides and diagonals of the rhombus.

Q14. The diagonals of a rectangle ABCD intersect in O. if  $\angle BOC = 70^\circ$ , find  $\angle ODA$ .

Q15. In a quadrilateral ABCD,  $\angle A + \angle D = 180^\circ$ . Does this mean  $AB \parallel DC$  ? Why? What special name does this quadrilateral have?