

INTERNATIONAL INDIAN SCHOOL BURAIDAH

STD VII -- MATHS WORKSHEET (II TERM) -- 8

L-9 Rational No. & L-10 Practical Geometry

1) Write (i) three positive rational no. (ii) three negative rational no.

2) Write three equivalent rational no. of $\frac{-2}{3}$

3) Write the following rational no. in the standard form.

(i) $\frac{-5}{10}$ (ii) $\frac{21}{-27}$ (iii) $\frac{-6}{-7}$ (iv) $\frac{35}{45}$

4) Write the following rational no. in the ascending order.

(i) $\frac{-5}{8}, \frac{3}{4}, \frac{-1}{2}, \frac{-7}{8}, \frac{-1}{8}$ (ii) $\frac{-1}{2}, \frac{-3}{4}, \frac{-1}{4}, \frac{-7}{6}$

5) Compare the following rational no.

(i) $\frac{-3}{4}$ & $\frac{-4}{5}$ (ii) $\frac{-1}{6}$ & $\frac{-2}{3}$ (iii) $\frac{11}{12}$ & $\frac{4}{5}$ (iv) $\frac{-2}{7}$ & $\frac{4}{5}$ (v) $-1\frac{1}{2}$ & $-1\frac{2}{5}$

6) Represent the following rational no. on a number line.

(i) $\frac{4}{10}$ & $\frac{-7}{10}$ (ii) $\frac{-3}{5}$ & $\frac{-9}{5}$ (iii) $\frac{-8}{15}$ & $\frac{11}{15}$

7) Write the following rational no. in the descending order.

(i) $\frac{1}{3}, \frac{-1}{2}, \frac{-7}{12}, \frac{5}{6}$ (ii) $\frac{-5}{6}, \frac{2}{3}, \frac{1}{2}, \frac{-1}{3}$

8) Write four rational no. between (i) -4 and -5 (ii) 0 & -2

9) Write five rational no. between (i) $\frac{-3}{4}$ & $\frac{-4}{5}$ (ii) $\frac{-3}{5}$ & $\frac{-5}{12}$ (iii) $\frac{1}{3}$ & $\frac{-11}{14}$

10) Add the following: (i) $\frac{-16}{41} + \frac{39}{41}$ (ii) $\frac{-1}{6} + \frac{-7}{8}$ (iii) $\frac{9}{11} + \frac{-16}{33}$ (iv) $\frac{-4}{5} + \frac{4}{5}$

(v) $\frac{3}{8} + \frac{-1}{2} + \frac{-3}{4}$ (v) $-3\frac{1}{4} + -2\frac{1}{8}$ (vi) $-7\frac{1}{2} + 9\frac{1}{3}$

11) Subtract the following: (i) $\frac{9}{12} - \frac{5}{12}$ (ii) $\frac{5}{18} - \frac{-4}{18}$ (iii) $\frac{-3}{4} - \frac{1}{2}$

(iv) $\frac{-8}{15} - \frac{-3}{10}$ (v) $\frac{2}{9} - \frac{-7}{18}$ (vi) $\frac{-31}{60} - \frac{-29}{36}$

12) Find the product of: (i) $\frac{-1}{3} \times 6$ (ii) $\frac{-3}{5} \times \frac{-5}{3}$ (iii) $-3\frac{1}{2} \times 7\frac{1}{7}$

(iv) $\frac{-6}{5} \times -2$ (v) $\frac{2}{3} \times \frac{9}{11} \times \frac{-44}{63}$ (vi) $\frac{5}{21} \times \frac{-42}{15}$ (vii) $\frac{-13}{46} \times \frac{-23}{-26}$

13) Find the reciprocal of: (i) $\frac{-1}{7}$ (ii) $\frac{-3}{-4}$ (iii) -11 (iv) 15 (v) $\frac{4}{5}$

14) Divide the following: (i) $\frac{-2}{3} \div \frac{1}{4}$ (ii) $\frac{-9}{7} \div \frac{-11}{14}$ (iii) $-3 \div \frac{-1}{3}$

(iv) $-16 \div \frac{-8}{7}$ (v) $15 \div -3\frac{1}{5}$ (vi) $1\frac{1}{2} \div -3\frac{1}{4}$ (vii) $\frac{-14}{3} \div \frac{7}{6}$

15) From his home Vishal cycled $\frac{3}{5}$ km south to the post office and then $1\frac{2}{3}$ km North from the post office. Find his final position.

16) Draw a line l and take a point P outside it. Through P, draw a line parallel to l.

17) Construct $\triangle ABC$ where $AB=5.6$ cm, $BC=6$ cm and $AC=4.6$ cm.

18) Draw an isosceles triangle in which $AB=AC$ such that $BC=4$ cm and $AC=7$ cm.

19) Draw $\triangle ABC$, where $AB=7$ cm, $BC=8$ cm and $\angle C=95^\circ$.

20) Construct $\triangle DEF$ in which $\angle D=70^\circ$, $\angle E=30^\circ$ and $DE=7.8$ cm.

21) Construct an isosceles triangle XYZ in which $XY=XZ$, $\angle X=80^\circ$ and $YZ=7$ cm.

22) Construct $\triangle DEF$ right-angled at E, given that $DF=5$ cm and $EF=3$ cm.
