**Kendriya Vidyalaya Barwaha**

**Class VII**

**Holiday Home Work-2019-20(Winter Break)**

**Rational Numbers:**

Que1. Write the definition of Rational number and Give four examples of rational number

Que.2. Find (a) $\frac{3}{7}-\frac{1}{14}$ (b) $1\frac{2}{3}-\frac{8}{9}$ (c) $4\frac{1}{5}+\frac{1}{4}-\frac{7}{2}$

Que.3. Find the standard form of (a) $-\frac{18}{45}$ (b) $-\frac{12}{18}$

Que.4.List three rational numbers between – 2 and – 1.

Que.5. Write the rational numbers in ascending order $-\frac{1}{2} ,-\frac{1}{3}, -\frac{1}{4}$,-$ \frac{1}{6}$

Que.6. Find the sum:$\left(1\right) \frac{2}{5}+\frac{3}{15 } \left(2\right) \frac{5}{4}- \left(-\frac{11}{4}\right) \left(3\right) \left(-\frac{8}{19}\right)+\left(-\frac{2}{57}\right)$

Que.7. Find :$\left(1\right) \frac{7}{24}-\frac{17}{36 } \left(2\right) \frac{-6}{13}- \left(-\frac{7}{15}\right) \left(3\right) \left(-\frac{3}{8}\right)-\frac{7}{11}$

Que.8. Find :$ \left(1\right) \frac{9}{2}×\frac{-7}{4 } \left(2\right) \frac{-6}{3}× \left(-\frac{7}{15}\right) \left(3\right) \left(-\frac{3}{8}\right)×\frac{7}{11}$

Que.9. Find :$ \left(1\right) (-4)÷\frac{2}{3 } \left(2\right) \frac{-1}{8}÷\frac{3}{4} \left(3\right) \left(-\frac{3}{8}\right)÷\frac{9}{32}$

**Area and Perimeter**

Que.1. Find the area of a square park whose perimeter is 360 m.

Que.2. The perimeter of a rectangular sheet is 100 cm. If the length is 35 cm, find its breadth.

 Also find the area.

Que.3. PQRS is a parallelogram (Following Figure). QM is the height from Q to SR and QN is

 the height from Q to PS. If SR = 12 cm and QM = 7.6 cm. Find:

 (a) the area of the parallegram PQRS (b) QN, if PS = 8 cm

 

Que 4. What is the circumference of a circle of diameter 10 cm. ($π=3.14$)

Que5. Shazli took a wire of length 44 cm and bent it into the shape of a circle. Find the radius of

 that circle. Also find its area. If the same wire is bent into the shape of a square, what will

 be the length of each of its sides? Which figure encloses more area, the circle or the

 square? ($π=\frac{22}{7}$)

Que.6. The circumference of a circle is 31.4 cm. Find the radius and the area of the circle? ($π=3.14$)

Que.7. A path 5 m wide runs along inside a square park of side 100 m. Find the area of the path.

 Also find the cost of cementing it at the rate of Rs 250 per 10 m2.

Que.8. Two cross roads, each of width 5 m, run at right angles through the centre of a

 rectangular park of length 70 m and breadth 45 m and parallel to its sides. Find the area

 of the roads. Also find the cost of constructing the roads at the rate of Rs 105 per m2.

**Practical Geometry:**

