

# PRACTICE WORKSHEET

CLASS: VII

TOPIC: **CH.9 RATIONAL NUMBERS**  
**CH.10 PRACTICAL GEOMETRY**  
**CH.11 PERIMETER AND AREA**

SUBJECT: MATHEMATICS

## Multiple Choice question

Q.1 Which of the following rational number is negative?

(a)  $-\left(\frac{-3}{7}\right)$

(b)  $\frac{-5}{-8}$

(c)  $\frac{9}{8}$

(d)  $\frac{3}{-7}$

Q.2 Which of the following rational number is equal to its reciprocal?

(a) 1

(b) 2

(c)  $\frac{1}{2}$

(d) 0

Q.3 In the standard form of a rational number, the common factor of numerator and denominator is always:

(a) 0

(b) 1

(c) -2

(d) 2

Q.4 Which of the following is equivalent to  $\frac{4}{5}$  ?

(a)  $\frac{5}{4}$

(b)  $\frac{16}{25}$

(c)  $\frac{16}{20}$

(d)  $\frac{15}{25}$

Q.5 Which is greatest number in the following:

(a)  $\frac{-1}{2}$

(b) 0

(c)  $\frac{1}{2}$

(d) -2

Q.6 A triangle can be constructed by taking its sides as:

(a) 1.2 cm, 2.6 cm, 4.4 cm

(b) 1 cm, 3 cm, 4 cm

(c) 2.4 cm, 1.4 cm, 6.4 cm

(d) 3.5 cm, 2.5 cm, 5.5 cm

Q.7 A triangle can be constructed by taking two of its angles as:

(a)  $110^\circ, 40^\circ$

(b)  $70^\circ, 115^\circ$

(c)  $135^\circ, 45^\circ$

(d)  $90^\circ, 90^\circ$

Q.8 Which of the following sets of triangles could be the lengths of the sides of a right-angled triangle:

(a) 3 cm, 4 cm, 5 cm

(b) 9 cm, 16 cm, 26 cm

(c) 1.5 cm, 3.6 cm, 3.9 cm

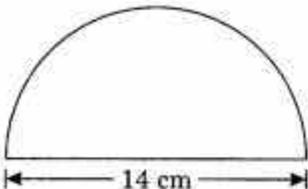
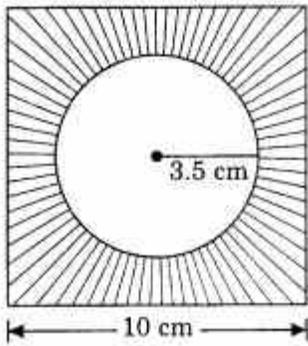
(d) 8 cm, 24 cm, 26 cm

Note: The above contents / document is prepared at home

**Note: The above contents / document is prepared at home**

|                              |   |
|------------------------------|---|
| Q.9                          | What is one third of 87?<br>A. 28<br>B. 28<br>C. 29<br>D. None of these   |
| Q.10                         | The equivalent fraction for $\frac{4}{18}$ is:<br>A. $\frac{2}{6}$<br>B. $\frac{2}{9}$<br>C. $\frac{3}{9}$<br>D. $\frac{4}{9}$    |
| <b>Long answer questions</b> |   |
| Q.11                         | Reduce each of the following rational numbers in its lowest form:<br>(i) $\frac{-60}{72}$ (ii) $\frac{91}{-364}$                  |
| Q.12                         | Represent the following rational numbers on a number line:<br>$\frac{3}{8}, \frac{-7}{3}, \frac{22}{-6}$ .                        |
| Q.13                         | Arrange the given rational numbers in ascending order.<br>$\frac{-7}{10}, \frac{5}{-8}, \frac{2}{-3}, \frac{-1}{4}, \frac{-3}{5}$ |
| Q.14                         | If $\frac{-5}{7} = \frac{x}{28}$ , find the value of x.   |
| Q.15                         | Find the sum of<br>(i) $\frac{8}{13}$ and $\frac{3}{11}$ (ii) $\frac{7}{3}$ and $\frac{-4}{3}$                                    |
| Q.16                         | Which is greater in the following?<br>(i) $\frac{3}{4}, \frac{7}{8}$ (ii) $-3\frac{5}{7}, 3\frac{1}{9}$                           |
| Q.17                         | List four rational numbers between $\frac{5}{7}$ and $\frac{7}{8}$ .  |
| Q.18                         | Draw a triangle whose sides are of lengths 4 cm, 5 cm and 7 cm.   |
| Q.19                         | Construct an obtuse angled triangle which has a base of 5.5 cm and base angles of $30^\circ$ and $120^\circ$ .                    |
| Q.20                         | Construct an equilateral triangle ABC of side 6 cm.   |
| Q.21                         | Draw an isosceles triangle with each of equal sides of length 3 cm and the angle between them as $45^\circ$ .                     |
| Q.22                         | Construct a right-angled triangle whose hypotenuse is 6 cm long and one of the legs is 4 cm long.                                 |
| Q.23                         | Construct the right angled triangle PQR, where $\text{Angle} Q = 90^\circ$ , $QR = 8\text{cm}$ and $PR = 10\text{ cm}$ .          |
| Q.24                         | If the perimeter of a square is 24 cm. Find its area.   |
| Q.25                         | A rectangle park is 45 m long and 30 m wide. A path 2.5 m wide is constructed outside the   |

**Note: The above contents / document is prepared at home**

|      |  |
|------|--|
|      | park. Find the area of the path.   |
| Q.26 | A rectangular piece of dimension 3 cm × 2 cm was cut from a rectangular sheet of paper of dimensions 6 cm × 5 cm. Find the ratio of the areas of the two rectangle |
|      | Find the perimeter of the figure given below.<br>                                 |
| Q.27 | A wire of length 176 cm is first bent into a square and then into a circle. Which one will have more area?   |
| Q.28 | In the given figure, find the area of the shaded portion.<br>                     |
|      |  |