

Question Paper

Class: VI

60 Marks

I. Choose the correct answer.

(10 × 1 = 10)

a. A fraction equivalent to $\frac{81}{99}$ is ____.

- i. $\frac{8}{9}$ ii. $\frac{7}{11}$ iii. $\frac{9}{11}$ iv. $\frac{7}{9}$

b. Two fractions with same denominators are called _____.

- i. Unit fractions ii. Improper fractions iii. Like fractions iv. Unlike fractions

c. 8 more than 4 times x is ____.

- i. $4 + 8x$ ii. $8 + 4x$ iii. $8 + 4 + x$ iv. $4(8 + x)$

d. The solution of the equation $\frac{x}{6} = 5$ is _____

- i. $x = \frac{5}{6}$ ii. $x = \frac{6}{5}$ iii. $x = 65$ iv. $x = 30$

e. A regular polygon with 8 equal sides is called _____.

- i. Pentagon ii. Hexagon iii. Heptagon iv. Octagon

f. Three or more lines that pass through the same point are called _____ lines.

- i. parallel ii. perpendicular iii. intersecting iv. concurrent

g. An angle that measures more than 90° and less than 180° is called as an _____ angle.

- i. acute ii. right iii. obtuse iv. straight

h. The sum of the measures of two supplementary angles is _____.

- i. 90° ii. 180° iii. 270° iv. 360°

i. A line is said to be perpendicular to another line if the angle between them is ____.

- i. 90° ii. 180° iii. 270° iv. 360°

j. How many line segments are used to write the letter F?

- i. 2 ii. 3 iii. 4 iv. 5

2. Fill in the blanks.

(5 × 1 = 5)

- a. One-third of a straight angle is equal to _____.
- b. A line which cuts a line segment into two equal parts at 90^0 is called a _____.
- c. If two angles form a right angle, then their sum is _____.
- d. The letters used to represent the numbers in an equation are called _____.
- e. The fraction $\frac{80}{144}$ reduced to its simplest form is _____.

3. Solve the following.

(5 × 2 = 10)

- a. Convert $\frac{79}{13}$ into mixed fraction.

- b. Write the given statement as an algebraic equation.

$\frac{2}{7}$ of a number y added to the sum of 6 and 9

- c. Draw a polygon with 5 equal sides. Name that polygon.

- d. Find the complement and supplement of 49^0

- e. Solve: $3(2x + 9) = 45$

4. Do as instructed.

(5 × 3 = 15)

a. Subtract: $2\frac{2}{7} - 2\frac{1}{5}$

b. Arrange in ascending order: $\frac{5}{7}$, $\frac{1}{5}$, $\frac{3}{11}$

c. Check, if $x = 20$ is a solution of the given equation.

$$2(3x - 19) = 82$$

d. The following are the marks of Ria in different subjects.

Maths ● $\frac{60}{80}$; Science ● $\frac{28}{40}$; English ● $\frac{17}{20}$

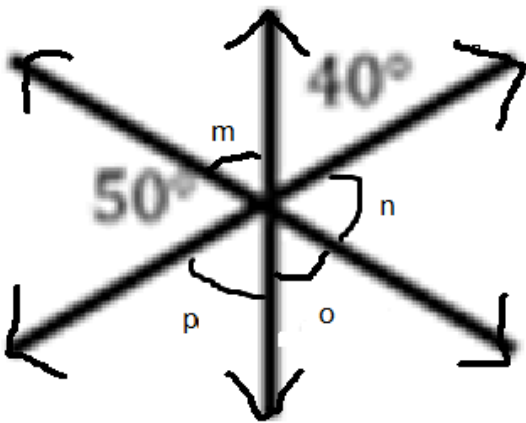
Find out in which subject did she score the highest marks and in which subject did she score the lowest marks.

e. Draw a line segment XY of length 7.8 cm and then construct a line perpendicular to XY.

5. Solve the following word problems.

(2 × 5 = 10)

a. Find the measures of angles m , n , o and p .



b. Use a protractor to draw an angle of 120° and then bisect it 4 times using a compass. Measure the angle you get.