## I. Objective Questions

**A. Fill in the blanks:**                                              **[ 0.5 x 8 = 4 ]**

(i) A fraction is a number which represent a _____ of whole.

(ii) A proper fraction lies between 0 and _____.

(iii) A mixed fraction can be converted into _____ fraction.

(iv) Fractions having different denominations are called _____.

(v) In two like fractions, the fraction having smaller numerator is _____.

(vi) 144/180 reduced to simplest form is _____.

(vii) $7\frac{2}{5} +$ _____ $= 12$

(viii) $42 / 56 = \frac{6}{\underline{\quad}}$.....

**B. State whether the following statements are true (T) or false (F):**          **[ 0.5 x 7 = 3.5 ]**

(i) Two fractions with same numerator are called like fractions.

(ii) A fraction in which the numerator is greater than is denominator is called an improper fraction.

(iii) Every improper fraction can be converted into a mixed fraction.

(iv) Every fraction can be represented by a point on a number line.

(v) In two unlike fractions with same numerator, the fraction having greater denominator is greater.

(vi) 1/2, 1/3 and 1/4 are like fractions.

(vii) $5 - 1\frac{3}{4} = 4\frac{1}{4}$

## C. Multiple Choice Questions:                                   **[ 0.5 x 10 = 5 ]**

**Q1.**In the given figure, the shaded part is represented by the fraction:

(a) $\frac{3}{8}$          (b) $\frac{3}{7}$

(c) $\frac{4}{8}$          (d) $\frac{3}{6}$
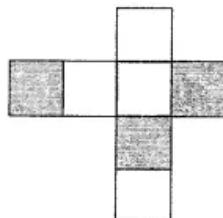


**Q2.**In the given figure, the shaded region is represented by the fraction:

(a) $\dfrac{4}{12}$          (b) $\dfrac{5}{12}$

(c) $\dfrac{5}{24}$          (d) $\dfrac{4}{24}$
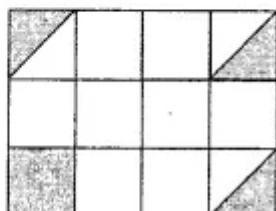


**Q3.** The two consecutive integers between which the fraction 5/7 lies are
(a) 5 and 7
(b) 5 and 6
(c) 6 and 7
(d) 0 and 1

**Q4.** Which of the following pairs of fractions are not equivalent?

(a) $\dfrac{3}{4}, \dfrac{15}{20}$          (b) $\dfrac{14}{21}, \dfrac{4}{6}$

(c) $\dfrac{8}{10}, \dfrac{12}{15}$          (d) $\dfrac{6}{14}, \dfrac{10}{25}$

**Q5.** The fraction equivalent to 45/81 is

(a) $\dfrac{90}{243}$          (b) $\dfrac{15}{9}$

(c) $\dfrac{5}{27}$          (d) $\dfrac{5}{9}$

**Q6.** Which of the following fractions is not in the lowest form?

(a) $\dfrac{27}{28}$          (b) $\dfrac{13}{33}$

(c) $\dfrac{39}{87}$          (d) $\dfrac{14}{9}$

**Q7.** Which of the following fractions is the greatest?

(a) $\dfrac{5}{6}$          (b) $\dfrac{5}{7}$

(c) $\dfrac{5}{8}$          (d) $\dfrac{5}{9}$

**Q8.** Which of the following is a false statement?

(a) $\dfrac{1}{7} < \dfrac{3}{14}$          (b) $\dfrac{5}{8} = \dfrac{15}{24}$

(c) $\dfrac{3}{4} = \dfrac{6}{16}$          (d) $\dfrac{5}{12} > \dfrac{2}{6}$

**Q9.**Anshul eats 47 of a pizza. The fraction of the pizza left is

(a) $\dfrac{3}{7}$

(b) $\dfrac{2}{7}$

(c) $\dfrac{5}{7}$

(d) $\dfrac{1}{7}$

**Q10.**The fraction whose numerator is the smallest odd prime number and denominator is the smallest composite number is

(a) $\dfrac{3}{4}$

(b) $\dfrac{2}{4}$

(c) $\dfrac{4}{3}$

(d) $\dfrac{4}{2}$

## II. Short Answer Questions:                    [ 2 x 12 = 24 ]

**Q1.**Write all proper fractions whose sum of numerator and denominator is 12.

**Q2.**In the adjoining figure, if we say that the shaded region is 1/4 of the whole region, then identify the error in it.
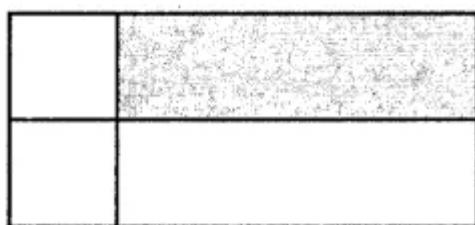


**Q3.**Shabana has to stitch 35 dresses. So, far she has stitched 21 dresses. What fraction of dresses has she stitched?

**Q4.**Show the fractions 1/6,2/6,3/6,4/6,5/6,6/6 and 8/6 on the number line. Replace '……' by an appropriate sign" between given fractions:

(i) $\dfrac{5}{6} \dots \dfrac{3}{6}$

(ii) $\dfrac{2}{6} \dots 0$

(iii) $\dfrac{4}{6} \dots \dfrac{6}{6}$

(iv) $\dfrac{8}{6} \dots \dfrac{5}{6}$

**Q5.**State which of the following fractions are proper, improper or mixed:

(i) $\dfrac{15}{26}$

(ii) $\dfrac{17}{12}$

(iii) $5\dfrac{2}{3}$

(iv) $\dfrac{6}{8}$

(v) $11\dfrac{5}{7}$

(vi) $\dfrac{117}{8}$

(vii) $\dfrac{222}{333}$

(viii) $\dfrac{531}{247}$

**Q6.** Replace '.....' in each of the following by the correct number.

(i) $\dfrac{2}{3} = \dfrac{...}{15}$

(ii) $\dfrac{7}{18} = \dfrac{42}{...}$

(iii) $\dfrac{4}{...} = \dfrac{12}{15}$

(iv) $\dfrac{...}{11} = \dfrac{70}{154}$

**Q7.** Reduce the following fractions to simplest form: (Any two only)

(i) $\dfrac{12}{27}$

(ii) $\dfrac{150}{350}$

(iii) $\dfrac{18}{81}$

(iv) $\dfrac{276}{115}$

**Q8.** Replace '.....' by an appropriate sign '<, = or >' between the given fractions:

(i) $\dfrac{1}{2} \ ... \ \dfrac{1}{5}$

(ii) $\dfrac{2}{4} \ ... \ \dfrac{3}{6}$

(iii) $\dfrac{7}{9} \ ... \ \dfrac{3}{9}$

(iv) $\dfrac{3}{4} \ ... \ \dfrac{2}{8}$

**Q9.** Arrange the given fractions in descending order: (any one only)

(i) $\dfrac{5}{17}, \dfrac{4}{9}, \dfrac{7}{12}$

(ii) $\dfrac{7}{12}, \dfrac{11}{36}, \dfrac{37}{72}$

**Q10.**

(i) What number should be added to 5/12 to get $2\dfrac{3}{8}$?

(ii) What number should be subtracted from 5 to get $1\dfrac{5}{13}$ ?

**Q11.** Evaluate the following: (any 3 only)

(i) $\dfrac{8}{21} \div 4$

(ii) $\dfrac{4}{15} \div \dfrac{2}{5}$

(iii) $8 \div \dfrac{5}{6}$

(iv) $5\dfrac{1}{4} \div \dfrac{7}{8}$

(v) $5\dfrac{1}{3} \div 1\dfrac{1}{9}$.

**Q12.** Find in the missing fractions: (any two only)

(i) $\dfrac{7}{10} - \square = \dfrac{3}{10}$

(ii) $\square + \dfrac{5}{27} = \dfrac{12}{27}$

(iii) $\square - \dfrac{5}{7} = \dfrac{2}{7}$.

## III. Long Answer Questions:                                                [ 4 x 3 = 12 ]

**Q1.** Write the shaded portions as fractions. Arrange them in ascending order using appropriate sign between fractions:

(i)

(ii)
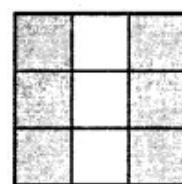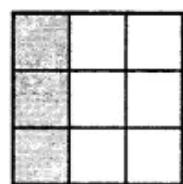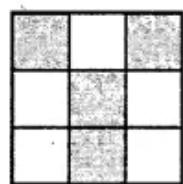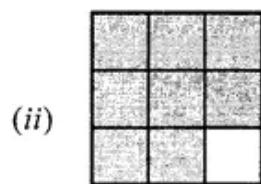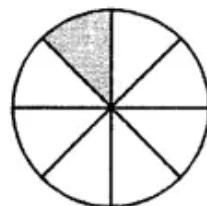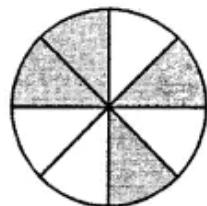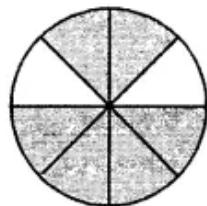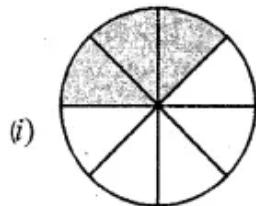
**Q2.** Arrange the following fractions in descending order: 7/30, 13/15, 9/10, 3/5

**Q3.Simplify the following:** (Any four only – V, VIII compulsory)

(i) $1\dfrac{2}{3} + 2\dfrac{1}{2} + \dfrac{3}{4}$          (ii) $3\dfrac{2}{9} + 2\dfrac{1}{3} + 2\dfrac{7}{12}$

(iii) $\dfrac{7}{12} + \dfrac{8}{9} - \dfrac{5}{6}$          (iv) $1\dfrac{3}{25} + \dfrac{7}{20} - \dfrac{2}{5}$

(v) $1\dfrac{13}{14} - 2\dfrac{5}{6} + 1\dfrac{6}{7}$   (vi) $\dfrac{3}{1} - 1\dfrac{1}{6} - \dfrac{7}{15}$

(vii) $5 - 4\dfrac{3}{8} + \dfrac{17}{18}$

(viii) $2\dfrac{3}{14} - 3\dfrac{5}{6} - \dfrac{2}{5} + 2\dfrac{1}{2}$

## IV. Statement Questions: (any three only)                                   [ 3 x 3 = 9 ]

**Q1.** Sarita bought 2/5 metre of ribbon and Lalita 3/4 metre of ribbon. What is the total length of the ribbon they bought?

**Q2.** A bamboo of length $2\dfrac{3}{4}$ metre broke into two pieces. One piece was 7/8 metre long. How long is the other piece?

**Q3.**The weight of three packets are $2\frac{3}{4}$ kg. $3\frac{1}{3}$ kg and $5\frac{2}{5}$ kg. Find total weight of all the three packets.

**Q4.**Shivani read 25 pages of a book containing 100 pages. Nandini read 25 of the same book. Who read less?

**Q5.**Rafiq exercised for 3/6 of an hour, while Rohit, exercised for 3/4 of an hour. Who exercised for a longer time and by what fraction of an hour?