

REVISION FOR
ANNUAL EXAM

★ LESSON-3 HCF AND LCM

1. Which of the following numbers are divisible by 2?

a) 538

b) 298

2. Which of the following is divisible by 3?

a) 219

b) 3280

3. Which of the following is divisible by 4?

a) 2028

b) 34,900

4. Write the prime factorization of the following.

a) 26

b) 150

5. Find the HCF using prime factorization.

a) 48, 198

b) 76, 56

c) 7, 35, 165

6. Find the HCF using long division method.

a) 38, 194

b) 546, 940

7. Find LCM using prime factorization

a) 25, 115

b) 28, 50, 134

c) 26, 78, 106, 200

8. Find LCM using only division method

a) 36, 48, 140

b) 5, 20, 35

c) 30, 55, 35, 60

★ LESSON: 6 Fractions

I Add :-

$$1) 4\frac{1}{3} + 2\frac{1}{6} + \frac{1}{15} + 6$$

$$2) 1\frac{4}{9} + 1\frac{2}{3} + 1\frac{5}{27}$$

II Subtract :-

$$1) 4\frac{1}{6} - 1\frac{3}{10}$$

$$2) 6\frac{2}{3} - 3\frac{1}{6}$$

$$3) 7\frac{1}{3} - \frac{11}{24}$$

III Simplify simplify :-

$$1) \frac{11}{24} + \frac{12}{48} - \frac{2}{12} - \frac{5}{12}$$

$$2) 9\frac{1}{4} - 5\frac{1}{3} + \frac{5}{12}$$

Lesson no - 7 - Decimals

I Rewrite in ascending order.

a) $2.08, 0.5, 3.902, 4.61$

b) $36.4, 3.84, 40.36, 0.03$

II Convert into decimals

1) $\frac{45}{10}$

2) $\frac{297}{100}$

3) $\frac{39}{100}$

4) $\frac{147}{1000}$

III Convert into decimals by changing the denominators to 10 or multiples of 10.

1) $\frac{7}{125}$

2) $\frac{23}{10}$

3) $7\frac{1}{5}$

4) $\frac{11}{2}$

IV Add :-

1) $5.297 + 1.94$

2) $7.9 + 2.58 + 4.6$

3) $17.8 + 35.52 + 1.5$

V Subtract :-

a) $8 - 0.78$

b) $500.25 - 497.7$

VI Simplify :-

a) $11 - 12.255 + 8.7$

b) $48 - 35.098 + 12.77$

c) $83.175 + 293.1 - 1380.74$

d) $512.78 + 38.195 - 400.25$

★ LESSON - 9 - Linear Equations.

I Write the statement for the following.

1) $2(x+2) = 7$

2) $\frac{(M-5)}{5} = 10$

II Solve by trial and error methods.

1) $4y = 20$

2) $\frac{2m}{5} = 1$

III Solve the following:-

1) $17x = 660$

2) $-3(7-x) = 6$

$$\textcircled{3} \quad 5t = 4 + 5 \quad (9 - x - 5)$$

$$\textcircled{4} \quad 0 = 4S_t + (m - t) \cdot 5$$

$$\textcircled{5} \quad 6x + 11 = x - 14$$

Lesson no-12
Understanding elementary shapes.

Ex: 12.2

$\Rightarrow$ I, II, III & IV

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Ex 10 - Ratio and Proportion

Ex 10.1

I Express the following ratios as fractions and reduce them to their simplest forms

a) $28:96$

b) $15:135$

II Simplify the following Ratios

a) $2 \text{ years} : 1 \text{ month}$

b) $450 \text{ mL} : 3 \text{ L}$

III Compare the following ratios

a) $3:10$ and $2:15$

b) $7:24$ and $5:12$

IV The ratio of the number of boys and the number of girls in a class is $5:9$. Find the number of girls if the total number of students in the class is 56.

V The angles of a triangle are in the ratio of $2:3:4$. Find the measure of each of the triangle.

iv Find the cost of levelling a garden with length of 40 m and a breadth of 35 at the rate of ₹ 40 per m^2 .

v The area of a rectangle is $180 m^2$. If its length is 18 m, find its breadth and perimeter.

vi A room is 13 m long and 10 m broad. Find the cost of carpeting the floor at the rate of ₹ 650 per m^2 .

vii A rectangle is 36 m long and 25 m broad. Find the side of a square whose area is equal to the area of this rectangle.

Q. A parcel weighs 32kg. How many parcels would weigh 200kg?

Ex-15 Constructions

i. Draw a line segment of 6 cm. Draw a perpendicular to the line segment from point P lying outside the line segment.

ii. Draw two circles of the same radii. A is the centre of one circle and B is the centre of the other circle. Draw one of the circles in such a way that it passes through the centre of the other.

iii. Draw a line segment of length 3.5 cm. Mark a point A on it. Construct a perpendicular to the line segment passing through point A.

iv. Draw an angle of 30° with a protractor and bisect it by using a pair of compasses.

v. Draw a line $AB = 5$ cm and take a point A on it such that $AP = 3$ cm. Taking A as the centre,

draw an angle of 50° using a compass.

vi. Draw any line segment AB and take a point P outside it. Construct with a perpendicular on AB passing through P.

vii. Using a ruler and compass, construct angles of the following measures.

- a) 30° b) 45° c) 60° d) 90°

Ex-16 Perimeter and Area

i. The sides of a triangle park are 25 m, 18 m, and 17 m. Find the total distance travelled by a man after completing three rounds of the park.

ii. The length and breadth of a rectangular garden are 250 m and 145 m respectively. Find the cost of fencing the garden at the rate of ₹ 4.50 per meter.

iii. Find the length of the side of a square of perimeter 904.8 m.

Q. Two numbers are in the ratio of 3:8. If their sum is 350, find the numbers.

Ans. 10, 8

Q. Which of the following is proportion?

a) 16, 4, 32, 8

b) 4, 3, 8, 6

Q. Find the value of x in the following proportion.

a) $30 : x :: 46 : 24$

d) $18 : 16 :: 25 : x$

Q. Are the following in continued proportion?

a) $5 : 9 :: 9 : 27$

b) $10 : 15 :: 20 : 25$

Q. Find the third proportion of the following.

a) 3, 6

Q. Find the mean proportion of the following.
a) 4, 9

Q. Find the value of x in the following.

a) $3 : 4 :: x : 54$

b) $100 : x :: 2 : 8$

Q. On a map, a distance of 100 km is shown. If the actual distance is 500 km, what is the scale of the map?

Q. A shop purchased 20 packets of chocolate for ₹ 240. How many packets of the same chocolate can be purchased for ₹ 360?

Ans. 103

Q. The cost of 10 pens is ₹ 350. What is the cost of 18 such pens?

Q. A car covers 50 km in 1 hour. Find the distance covered by the same car in 45 minutes.

Q. If a boat covers a distance of 45 km in 9 hours, what distance will it cover in 7 hours?