

16) Common factors of $17abc, 34ab^2, 51a^2b^2$ is:

- a) $17abc$ b) $17ab$ c) $17ac$ d) $17a^2b^2c$

Section-B

1) Represent the following on Number Line

- i) $\frac{8}{3}$ b) $\frac{-5}{7}$ c) $\frac{2}{11}$

2) Three Consecutive Integers add up to 63. Find the Numbers.

3) Solve $\frac{7y+4}{y+2} = \frac{-4}{3}$

4) The measure of two adjacent angles of a parallelogram are in ration 3:2 .Find the measure of each of the angles of the parallelogram.

5) Construct a rhombus BEND having $BN=5.6$ cm $DE= 6.5$ cm

6) In a right triangle ABC, $\angle B=90^\circ$.If $Ac=3$ cm $BC=5$ cm .Find AB.

7) Find the cube root of 15625 by prime factorisation method.

8) Simplify $(4p +5q)^2 + (4p -5q)^2$

9) Find the value of x if

$$\left(\frac{2}{3}\right)^{5x} \times \left(\frac{2}{3}\right)^{5x} = \left(\frac{2}{3}\right)^{50}$$

10) Simplify $(a+b-c)(a-b+c)$

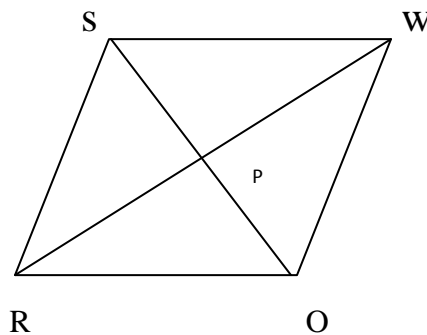
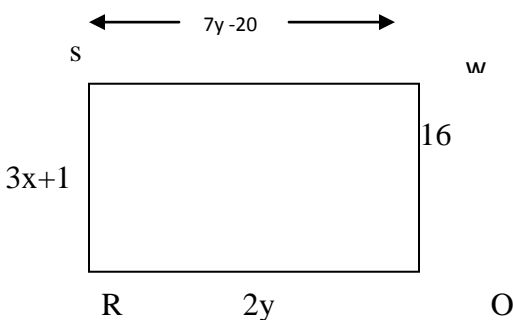
Section-C

1)Sum of two Rational Numbers is $\frac{-5}{3}$. If one of the rational numbers is $\frac{2}{3}$. Find the other.

2) Verify $a \times (b - c) = a \times b - a \times c$, $a=\frac{1}{2}$ $b=\frac{4}{5}$ $c =\frac{6}{7}$

3) Lakshmi is a cashier in a bank. She has a currency notes of denominations $\square 100$, $\square 50$ and $\square 10$ respectively. The ration of number of these notes is 2:3:5 .The total cash with Lakshmi is $\square 800000$.How many notes of each Denomination does she have?

4) Find the value of x and y



IF $PS= 3x+5, OP= x+15, PS= y+7 ,PW=3y-15$

5) Construct a Quadrilateral TRUE , $TR=3.5$ cm, $RU=3$ cm , $UE = 4$ cm $\angle R= 75^\circ, \angle U=120^\circ$

6) Find greatest number of 6 digits which is a perfect square.

7)Find the Square root of 15 upto 3 decimal places.

8) Subtract

$$2ab^2c^2 + 4a^2b^2c - 5a^2bc^2 \text{ from } -10a^2b^2c + 4ab^2c^2 + 2a^2bc^2$$

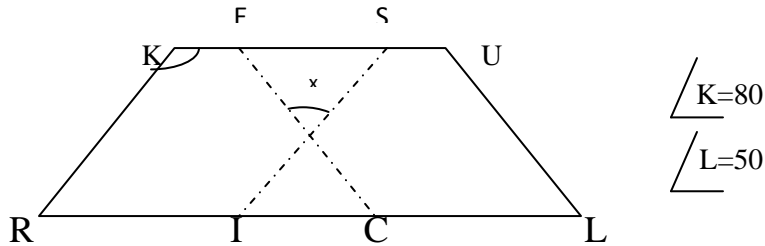
9) Simplify

$$\frac{6^5 - 6^7}{6^3}$$

10) Three numbers are in ratio 1:2:3 and the sum of their cubes is 4500. Find the numbers.

Section-D

- 1) Find the sum of additive inverse of $(\frac{1}{2} \times -\frac{3}{4})$ and multiplicative inverse of $(-4 \times \frac{8}{3})$
- 2) Find a number whose one fifth part increases by 30 is equal to its one fourth part decreased by 30.
- 3) Find Number of sides of a regular polygon whose exterior angle is of measure 120°
- 4) Find the value of X if RISK and CLUE are parallelogram



- 5) Find the length of side of a square whose area is 1024cm^2 .
- 6) Find the cube root of the following by using ones and tens digit.
 - i) 17576
 - ii) 704969
- 7) Show that
 - i) $(3x + 7)^2 - 84x = (3x - 7)^2$
 - ii) $(a-b)(a+b) + (b-c)(b+c) + (c-a)(c+a) = 0$
- 8) Write a Pythagorean triplet whose one member is
 - a) 6
 - b) 9