I FORMATIVE ASSEMENT 2017-18

Sub: Mathematics

STD: VIII **MARKS: 20**

DATE: 04/07/2017 **TIME: 1 Hr**

Q.1[A] Fill in the blanks: **(2)**

i. A number whose exact square root can be obtained is called _____.

ii. 3. $\overline{816}$ is _____ number.

iii. Congruent chords of the same circle form congruent _____ at the centre of the circle.

iv. 65. 2323451 is _____ number.

Q.1[B] Choose the correct options and rewrite the sentences **(2)**

i. $-\sqrt{144}$ = _____

a) 12 b) – 12 c) 21 d) – 21

ii. The longest chord of a circle is _____

a) Diameter b) Radius c) Chord d) Centre

iii. The diagonal of a parallelogram are _____ each other.

a) Parallel b) Bisect c) Congruent d) Perpendicular bisector.

iv. The opposite angles of a rhombus are _____ .

a) Supplementary b) Not congruent c) Complementary d) Congruent

Q.1[C] Do as directed **(6)**

i. In a rhombus PQRS, $m\angle P = 80°$ and $m\angle Q = 100°$. Find the measure of the other angles of rhombus PQRS

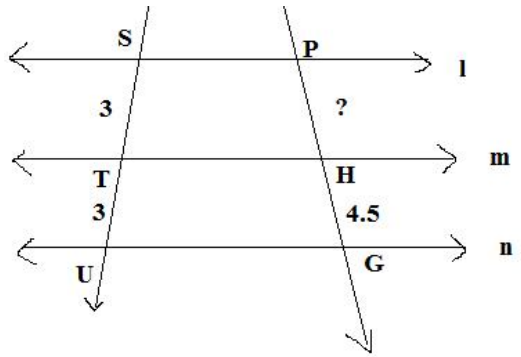
ii. Find the square root of 3136 by division method.

iii. If radius of circle 7cm. Find the length of longest chord of a circle.

iv. If a rectangle PQRS, length of diagonal QS is 13cm. Find the length of other diagonal.

v. In a circle, PS perpendicular to chord XY. Length of chord XY is 10 cm. What is the length of SY.

vi. In the figure, line l || line m || line n. From the given information find l(PH).

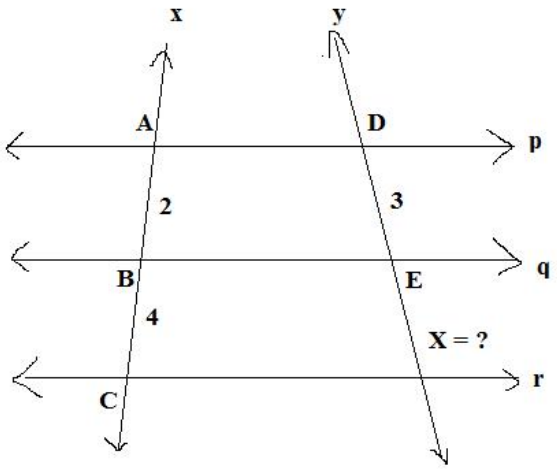


Q.2 [A] Solve the following (any 2) **(4)**

i. Find the length of the diagonal of a rectangle whose one side is 5 cm and other 12 cm.

ii. Find the square root of 555.5449 by division method.

iii. [illegible] || [illegible] || [illegible] and line y are their transversal. l(PH) = 2cm,



Q.2 [B] Solve the following (any 2) **(6)**

i.Draw seg AB of length 12 cm long and divideit intofour equal parts.

ii. The diameter of a circle is 10 cm. The distance of a chord from the center is 4 cm. Find the length of the chord.

iii. Find the approximate value of the square root of the 44.98 by division method up to 3 decimal places.