

Jender Heart High School, Sec.-33B Ch.

Class: VIII

Teacher: Deepu

Subject: Mathematics

Revision test

Section - A (20M)

Quest 1) Answer the following questions:

(i) Write in roster form:

$$A = \left\{ x : x = \frac{n+4}{n-1}, 2 \leq n \leq 5 \right\}$$

(ii) Two numbers are in the ratio 6:11. On adding 2 to the first and 7 to the second, their ratio becomes 8:15. Find the numbers.

(iii) The salaries of three friends - P, Q and R are in the ratio 5:7:4 resp. If P's salary get reduced by 20%, Q's salary increased by 10% and R's salary increased by 40%. What will be the ratio of their new salaries?

(iv) 120 men had provisions for 200 days, after 5 days, 30 men went due to epidemic, now the remaining food will ~~now~~ last for how many days?

v) A and B together can do a piece of work in 70 days, while A alone can do it in 120 days. How long would B take to do it?

vi) Factorize: $x^3 - x^2 - xy + x + y - 1$

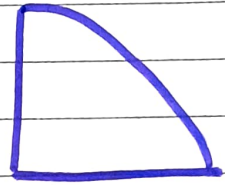
vii) Solve for x : $\frac{(x+5)}{6} - \frac{(x-3)}{4} = \frac{x+1}{9}$

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viii) A total of 324 coins of 20 paise and 25 paise make a sum of ₹ 71. find the number of 25 paise coins.

ix) find the solution set of the given equation
 $5 - (1 + 4x) < 10$, $x \in \mathbb{Z}$

x) Discuss all the three types of symmetry

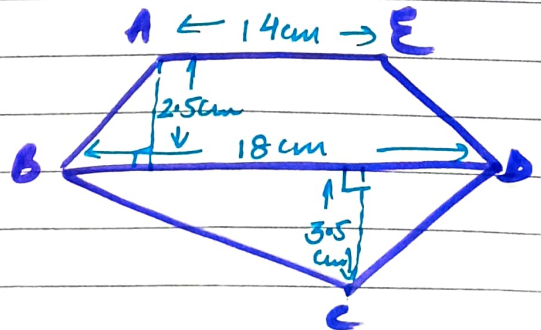


Section-B (40M)

Quest 2. The length of rectangle is 10 more than its breadth and the perimeter is 240m, find its dimensions and length of its diagonal.

Quest 3. The area of a rhombus is 139.2 cm^2 and its altitude is 9.6 cm. Find its perimeter of the rhombus.

Quest 4 find the area of the given figure



Quest 5. Find the radius and perimeter of a semicircle whose area is 12.32 m^2

Quest 6 The volume of a cube is 1000 cm^3 . find its (i) side (ii) L.S.A (iii) T.S.A

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Quest 7. The total surface area of a cylinder of radius 2.5 cm is 330 cm^2 . Find the height of the cylinder

Quest 8 (i) Complete the table :

Class-interval	Class size	Class-mark
40 - 50		
50 - 60		
60 - 70		

(ii) True upper ^{and lower} class limits of 21 - 25 is _____ . (In case of Inclusive form)

Quest 9 (i) A card is drawn from a well shuffled pack of 52 cards. Find the probability of
a) getting a king b) getting face card
c) getting a number 1
(ii) What is the probability of sure event?

Quest 10: A rope makes 140 rounds of a cylinder with base radius 14 cm. How many times can it go round a cylinder with base radius 20 cm?

Quest 11. $A = \{x : x \in \mathbb{Z}, -4 \leq x \leq 4\}$
 $B = \{x : x \in \mathbb{N}, x \text{ is a factor of } 72\}$
 $C = \{x : x \in \mathbb{N}, x \text{ is a multiple of } 108\}$
(i) $n(A)$ (ii) $A \cup B \cup C$
(iii) $A - B$ (iv) $B \cap C$

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Section - C (20M)

Quest 12. The present ages of A and his son are in the ratio $17:9$. If the ratio of their ages, 9 years ago was $7:3$, find their present ages.

Quest 13. A can do a piece of work in 25 days which B alone can do in 20 days. A started the work and was joined by B after 10 days. In how many days was the whole work completed?

Quest 14. Construct a quadrilateral PQRS in which $PQ = 5.2 \text{ cm}$, $QR = 3.6 \text{ cm}$, $\angle P = 60^\circ$, $\angle Q = 90^\circ$ and $\angle R = 120^\circ$.

Quest 15. Three cubes of metal with edges 5 cm , 4 cm and 3 cm resp. are melted to form a single cube. Find the lateral surface area of the new cube formed.
