

Tender Heart High School, Sec.-33 B chd.

Class: VII

Subject: Mathematics

Teacher: Deep Ti

Revision test (80M)

Quest 1: Answer the following questions: (20M)

Q) Write in set builder form:

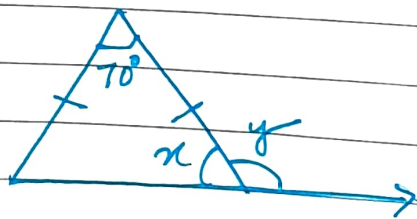
$$\left\{ \frac{1}{4}, \frac{1}{6}, \frac{1}{8}, \frac{1}{10}, \frac{1}{12}, \frac{1}{14} \right\}$$

(ii) Lemons are bought at the rate of 4 for ₹5. At what rate must they be sold to gain 20%?

(iii) What time will the train take to pass a platform 300m long at the speed of 10m/sec. and the length of train is 150m.

(iv) Solve for x :
$$\frac{2(8-4x)}{7} = \frac{7(x+9)}{8}$$

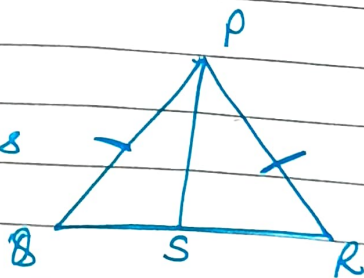
v) In a class of 50 students, 40% of them are boys, find (i) number of boys (ii) no. of girls.

vi) Find the value of x and y 

vii) Draw a square and show all the lines of symmetry of that square.

viii) Show that the two given triangles are congruent.

$$\triangle PBS \cong \triangle PRS$$



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i) The radius of a wheel is 420 cm, find the distance covered by wheel in 200 rotations.

x) The area of rectangle is 294 cm^2 , if its length is 35 cm find its breadth also find the cost of fencing it at the rate of ₹ 72 per cm.

Section - B (40 Marks)

Quest. 2. Find the area and circumference of a circle of diameter 16.8 cm.

Quest 3 a) From a deck of 52 playing cards, a card is chosen at random, find the probability of getting (i) a King (ii) a face card

b) Find the probability of no. of girls of your class (i.e. VII A / VII B)

Quest 4. The area of rhombus is 420 cm^2 , if one of the diagonal is 30 cm, then find its other diagonal and the side of rhombus.

Quest 5. By using ruler and compass, construct the given triangle $AB = 4 \text{ cm}$, $\angle A = 75^\circ$, $AC = 6 \text{ cm}$.

Quest 6. (i) Draw a net of cube.

(ii) Complete the given table

<u>3D shapes</u>	<u>faces</u>	<u>edges</u>	<u>Vertices</u>
1. Cylinder			
2. Triangular pyramid			

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Quest 7 The length of two sides of a triangle containing 90° are 32 cm and 24 cm, find the third side of the triangle.

Quest 8 (i) The sum of three consecutive numbers is 303, find the numbers.

(ii) The length of a rectangular park exceeds its breadth by 17 m. If the perimeter of the park is 178 m, find the dimensions of the park.

Quest 9 Riya's school is 3 km away from his house. She walks from her house to school and comes back in $1\frac{1}{2}$ hours. Find her average speed.

Quest 10 - At what time will ₹3600 amount to ₹4320 at 4% p.a simple interest?

Quest 11. On selling an almirah for ₹20350, a man gains 10%. What percent does he gain on selling the same for ₹19610?

Section - C (20 Marks)

Quest 12. If $A = \{2, 3, 5, 7, 11, 13, 17, 23, 29\}$
 $B = \{1, 2, 3, 4, 5, 6, 7\}$
 $C = \{1, 3, 5, 7, 9, 11\}$

find

(i) $A \cup B$

(ii) $B \cup C$

(iii) $A \cup (B \cap C)$

(iv) $B - C$

(v) $n(C)$

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Quest 13 If the cost price of 15 pens is equal to the selling price of 12 pens, find the gain percent.

Quest 14 There are some 50paise and some 25paise coins in a bag. If the total number of coins is 30 and their total value is ₹11, find the number of coins of each kind.

Quest 15 Find the area of the given quadrilateral ABCD

