

Tender Heart High School, Sec.-33B chd

class : VIII

Topic : Graphs

Subject : Mathematics

Revision for Term - II

Very short answer questions :

Quest. 1 a) Write all the proper subsets of the set
 $A = \{2, 6, 8\}$

b) How many subsets in all are there having elements 6.

c) $A = \{x : x \in \mathbb{N}, x \text{ is a factor of } 3\}$

$B = \{x : x \in \mathbb{N}, x \text{ is a factor of } 5\}$

$C = \{x : x \in \mathbb{N}, x \text{ is a factor of } 9\}$

find (i) $A \cap B$ (ii) $A \cup B$ (iii) $A \cap C$
(iv) $A - B$ (v) $B - C$

Quest 2 : A man reduces his weight in the ratio 7:5. What is his weight now, if originally it was 91 kg.

Quest 3 : If $A:B = 5:7$ and $B:C = \frac{2}{3} : \frac{3}{8}$ find

(i) $A:C$

(ii) $A:B:C$

Quest 4 : a) Check whether 4.5, 6, 8.5, 7 are in proportion.

b) What is the mean proportional between 4 and 25.

Quest 5 : If 7 pipes can fill a tank in 560 minutes. Then find how many minutes does 11 pipes take (in hours).

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Quest 6. A can do a piece of work in 12 days and B alone can do it in 16 days. They worked together on it for 4 days and then A left. How long did B take to finish the remaining work?

Quest 7. Factorise the following:

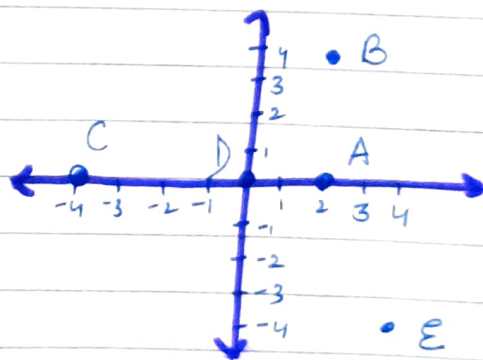
a) $y^2 - 1 - (y - 1)^2 + 4 - 4y$

b) $x^2 - a^2 + 4a - 4$

c) $a(a-1) - b(b-1)$

Quest 8. Divide 600 in two parts such that 40% of one exceeds 60% of the other by 120.

Quest 9. Write the Co-ordinates of the following points



Quest 10. a) If the ratio of areas of two squares is 16:25, then find the ratio of their perimeters.

b) Find the area of shaded region:

(Hint

radius of circle = diagonal of a rectangle
 $= \sqrt{(8)^2 + (6)^2}$

