PONDA SCHOOLS' ASSOCIATION
JOINT FIRST SUMMATIVE EXAMINATION, OCTOBER 2018

SCHOOL : _____

SEAT NO. : ☐☐☐☐☐
(In Figures)

SEAT NO. : ☐☐☐☐☐
(In Words)

STD. : **VII**   DIV. :

Sub : MATHEMATICS (Question-Cum-Answer Paper)

Language of answer _____

Date : **1-11-2018**   Time : **2 hours.**   Max. Marks : 50

Supervisor's Signature with date : _____

Questions	Marks Obtained	
	Examiner	Moderator
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
Total :		

Q. 1)   **A.** Select and write the correct alternative from those given in the bracket   **(1)**

   i) Additive inverse of -56 is _____ (0, 1, 56, $\frac{1}{56}$)

   ii) ____ ÷ (-1) = 15 . (-15, 15, $-\frac{1}{15}$, $\frac{1}{15}$)

   B) Attempt the following:-   **(2)**

   i) Evaluate: (-21)– (-10)

   _____

   _____

   ii) Find: 9 x (-3) x (-6)

   _____

   _____

C) 1) Find the product using suitable property. (2)

$15 \times (-25) \times (-4) \times (-10)$

_____

_____

_____

2) Write a pair of integers whose sum is -3 (1)

_____

_____

D) In a class of 60 students $\frac{1}{6}$ of the total number of students like to study Mathematics, $\frac{2}{3}$ of the total number like to study English and remaining students like to study Science. How many students like to study English and Science? (2)
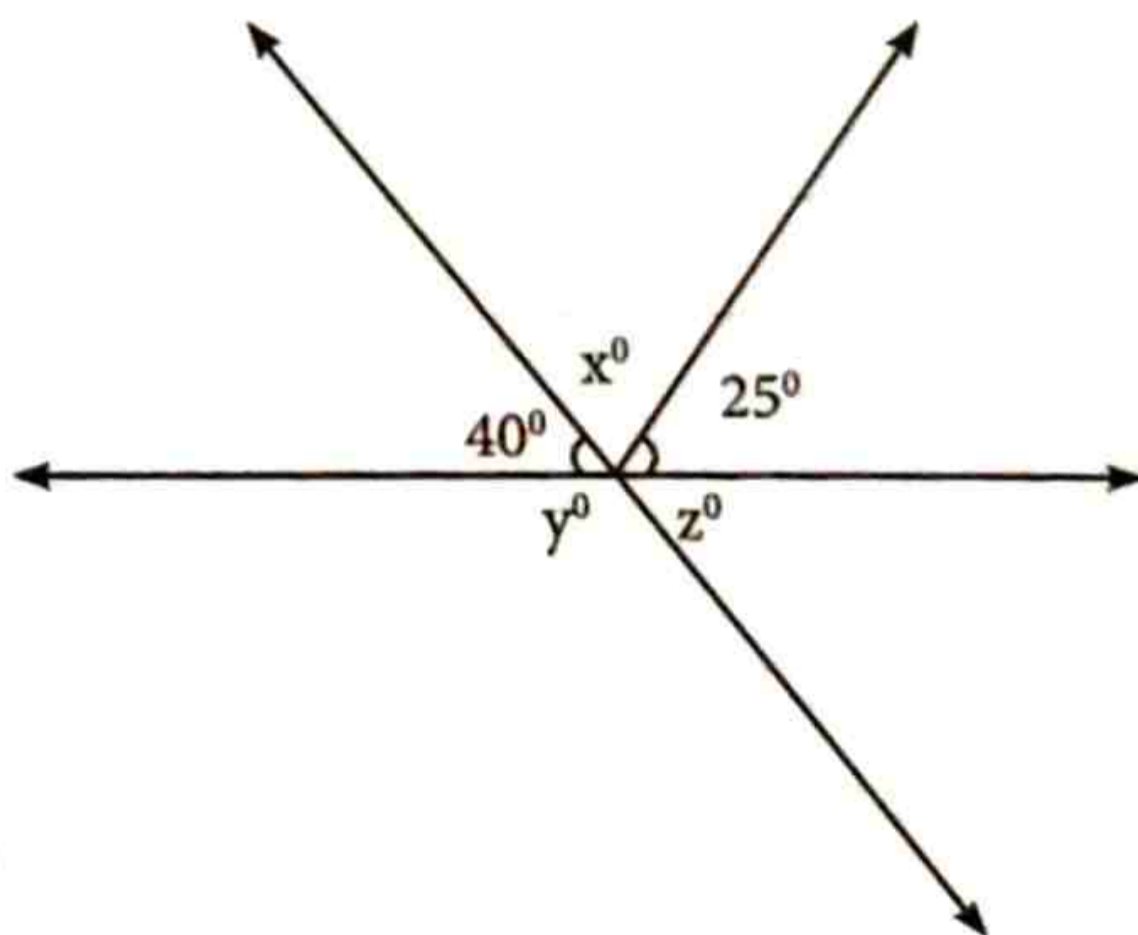
_____

_____

_____

_____

2) Find the value of angles x, y and z in the following figure. (2)

_____

_____

_____

Q. 2)

A. Select and write the correct alternative from those given in the bracket

(1)

i) The reciprocal of 1 is _____ . $(0, 1, -1, \frac{1}{2})$

ii) $\frac{2}{3} \times$ _____ $= \frac{10}{30}$ $(\frac{3}{2}, \frac{5}{10}, \frac{10}{5}, \frac{1}{3})$

B) Attempt the following:-

(2)

1) Find: $\frac{2}{3}$ of 18

_____

_____

2) Find: 0.5 X 0.05

_____

_____

C)

1) Express 235 paise as rupees using decimals.   (1)

_____

_____

2) Solve the following: (Any Two)   (3)

i) $\frac{3}{5} + \frac{2}{7}$ ii) $8\frac{1}{2} - 3\frac{5}{8}$

_____

_____
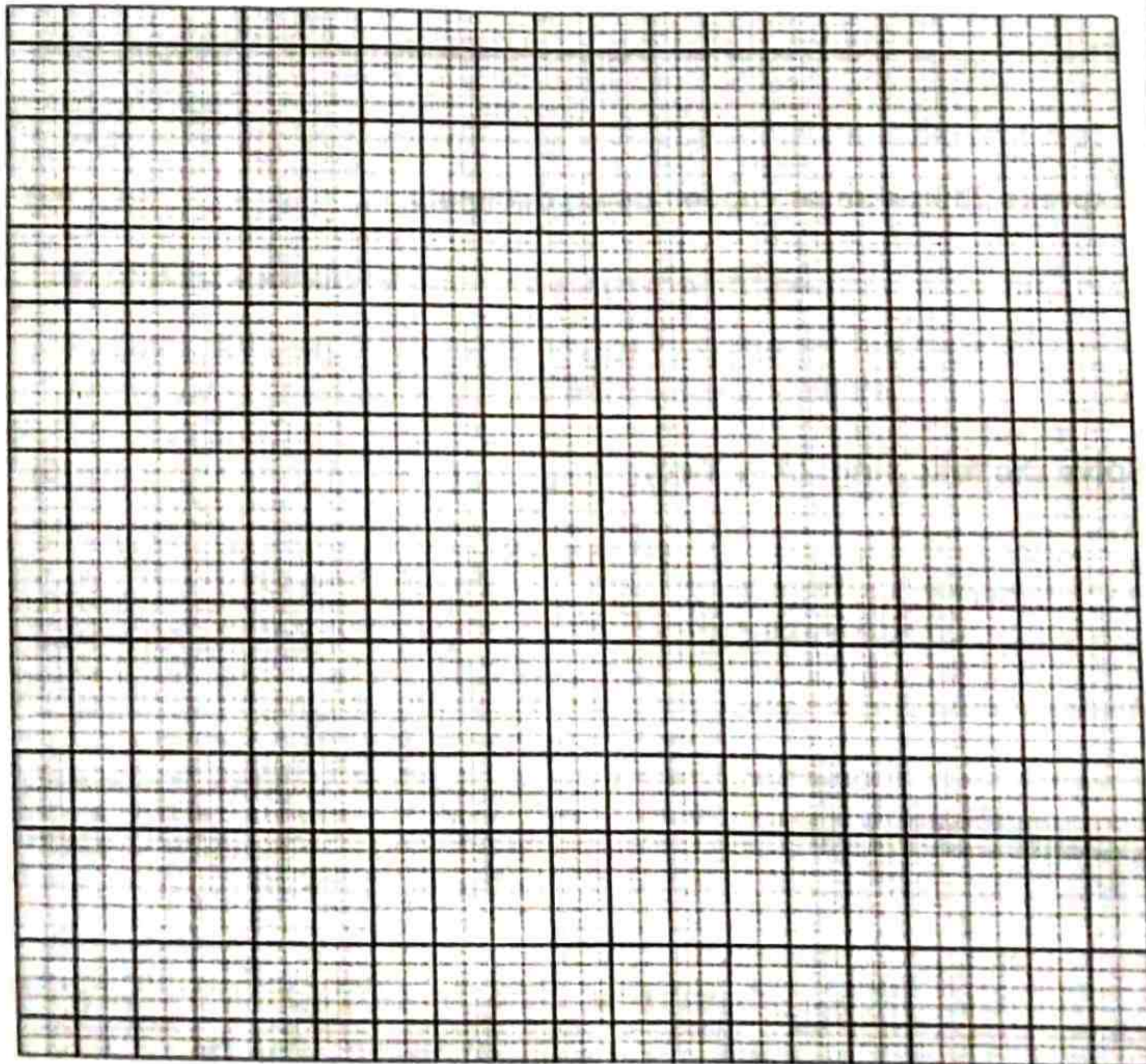
_____

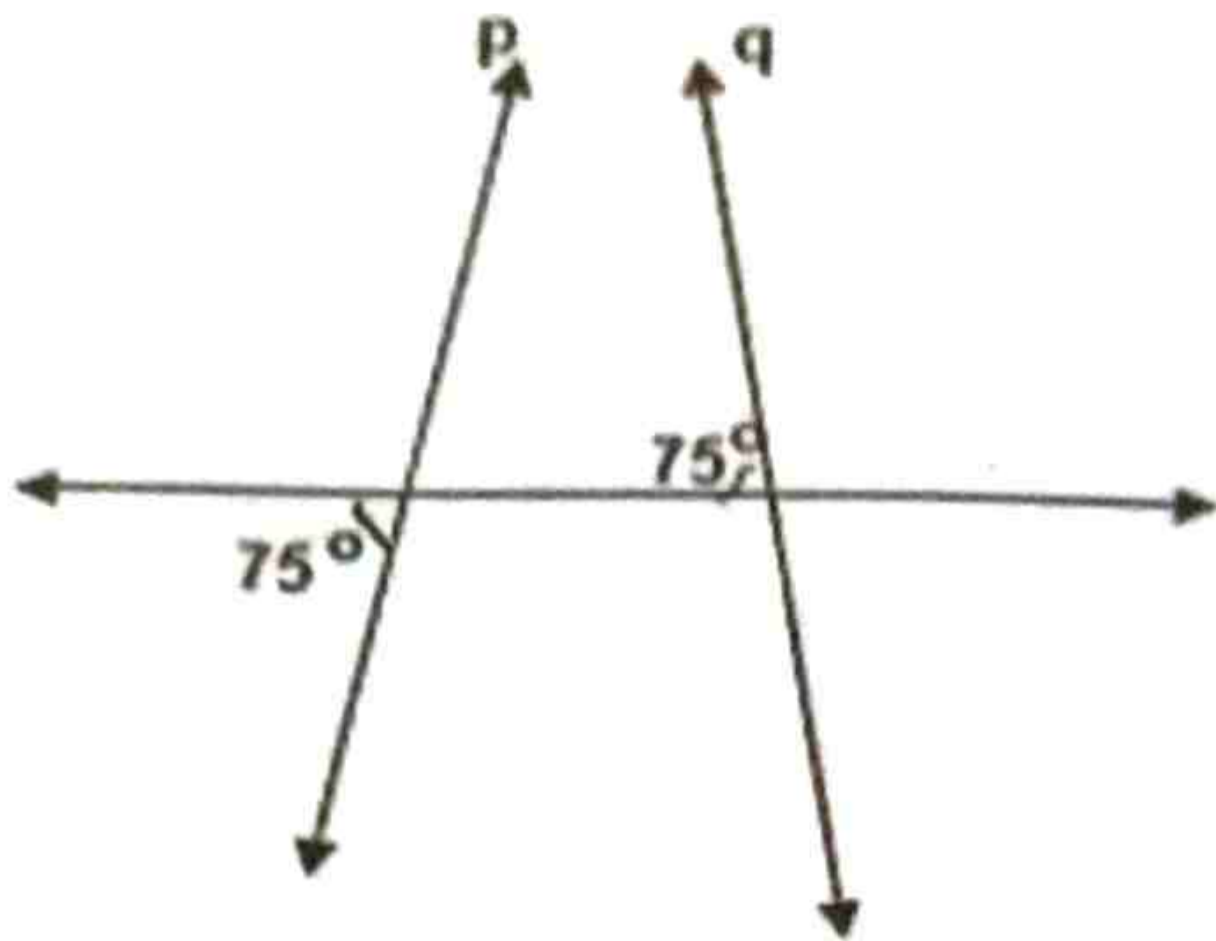_____

iii) $2\frac{3}{4} + \frac{7}{6}$

_____

_____

_____

D) 1) The following table shows the marks obtained in various subjects byVibhav in an examination. Represent the given data on a bar graph, using appropriate scale. (2)

Subjects	English	Hindi	Maths	Science	Social Science
Marks Obtained	25	50	55	45	35

D.   **2)** In the figure, state with reason whether line p // line q   **(1)**

_____

_____

_____

_____

Q 3)   **A.** Select and write the correct alternative from those given   **(1)**
in the bracket.

If two angles are supplementary, then the sum of their measures is _____ °.
(90, 100, 160, 180)

B.1) Write an equation for the given statement.   **(1)**

3 is added to seven times a number p gives 24

_____

_____

2) A batsman scored the following runs in five innings.

36, 50, 39, 60, 55.

Find the mean runs scored by him in an inning.   **(1)**

_____

_____

_____

C. 1) State with reason if it is possible to draw triangle with sides 3 cm, 6 cm and 7 cm. (1)

_____

_____

2) Given that line l parallel to line m & line p parallel to line q, Find the values of a, b, c and d in the figure drawn below. (2)

_____

_____

_____

_____

_____

_____
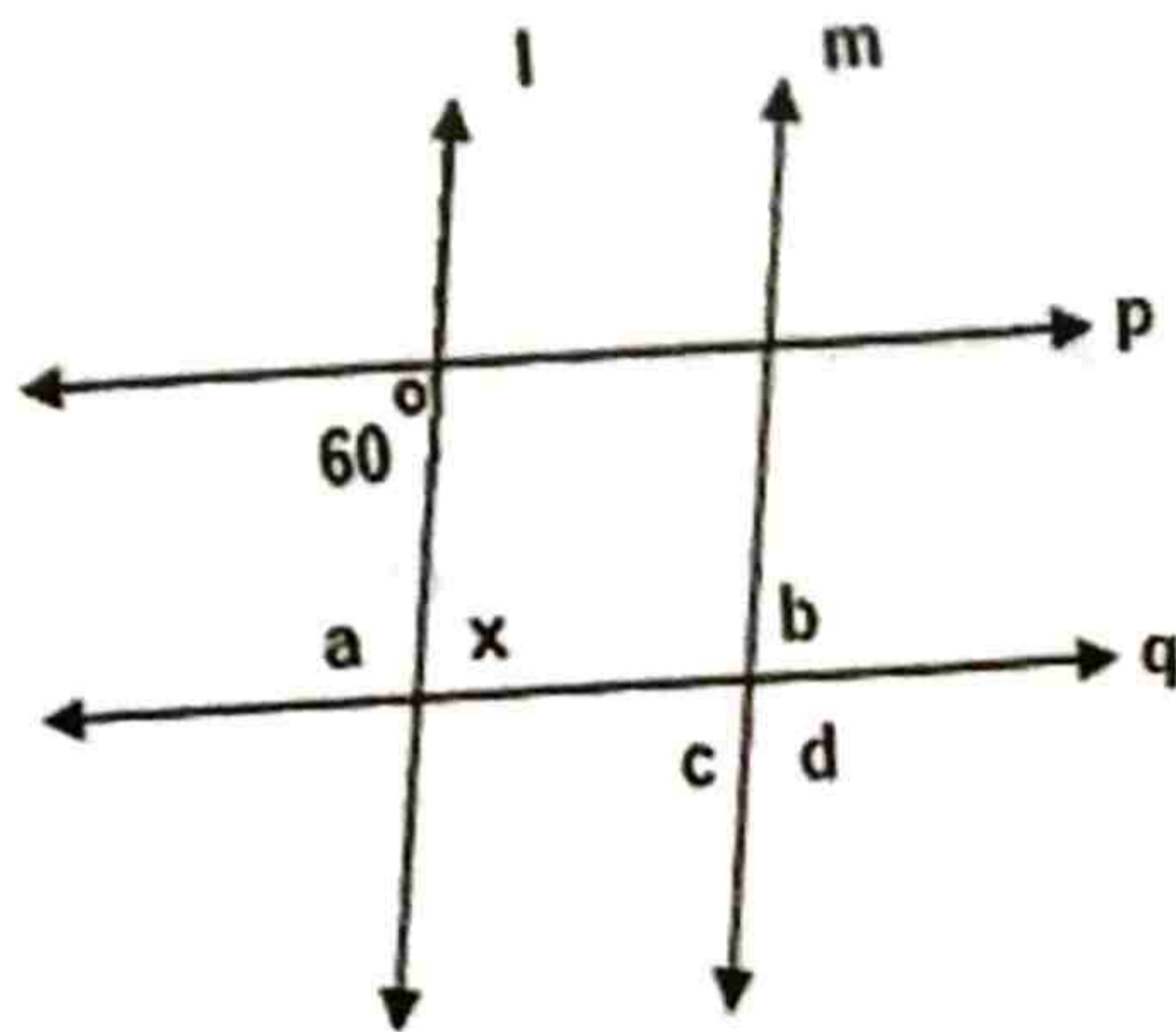
D.) 1. In the adjoining figure, AB ∥ CD,

BG ∥ EF, D-C-E, ∟ABC = 70°, (2)
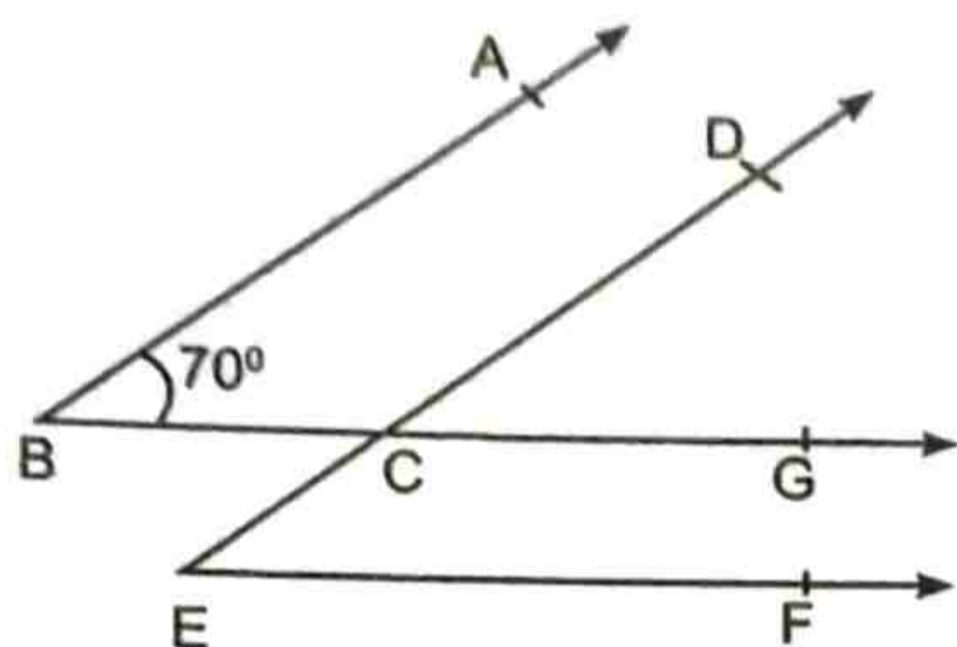
then find i) ∟DCG ii) ∟DEF

_____

_____

_____

_____

2) A plane is flying at the height of 5550 m above sea level. At a particular point it is exactly above a submarine floating 1150 m below sea level. What is the vertical distance between them. (2)

_____

_____

_____

_____

_____

Q.4   A) Select and write the correct alternative from those given in the bracket (1)

In a right angled triangle, the side opposite to the right angle is called

the _____.

(altitude, median, hypotenuse, bisector)

B) Do as directed

1) Find the mode of the given data. (1)

2, 14, 16, 12, 14, 14, 16, 14, 10, 14, 18, 14

VII - MATHEMATICS   7

2. Solve the following equations. (Any One) (2)

(i) $2(x + 4) = 12$

_____

_____

_____

_____

(ii) $5x - 3 = 12$

_____

_____

_____

C. 1) The sum of five times a number and 18 is 63. Find the number. (2)

_____

_____

_____

_____

2) Find the median of the given data: 24, 36, 46, 17, 18, 25, 35. (1)

_____

_____

D). Attempt the following:

1. Name the triangle with at least two sides equal. (1)

D)

2. In the given figures, find the value of x. (2)
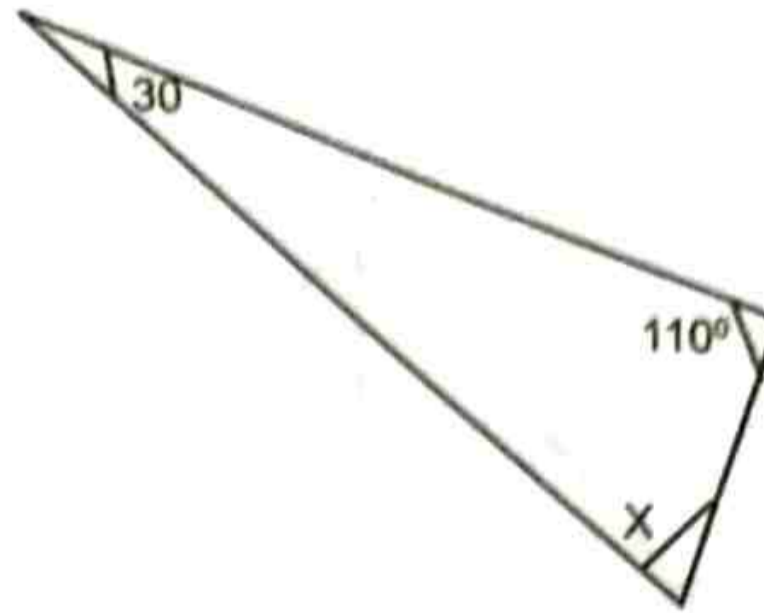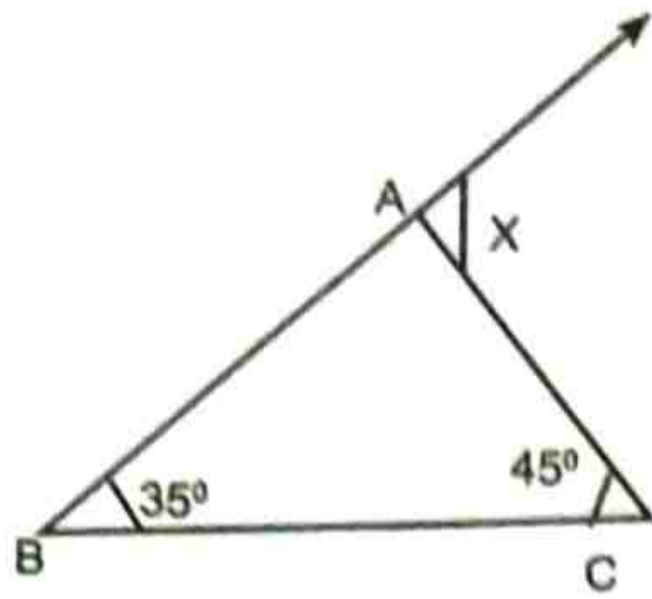
Q. 5) (A) Δ LET is congruent to ΔCAP. The measure of ∟LET= 70⁰, then find measure of ∟CAP. (1)

_____

_____

B) 1) Observe the figure and complete the following : (2)

In ΔABC and Δ ADC

1. $\overline{AB}$= _____ (Given)
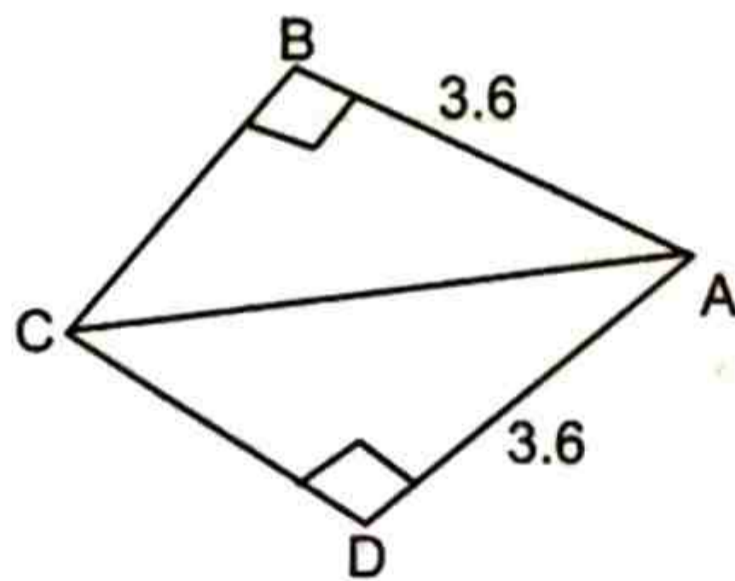
2. $\overline{AC}$=_____(Common Side)

3. ∟ABC = ∟ADC-----(Each is 90⁰)

4. ΔABC ≅ Δ _____

(by _____Congruence rule)

C) In figure, AB = AC and AD is the bisector of ∟BAC. **(3)**

Answer the following questions given below:
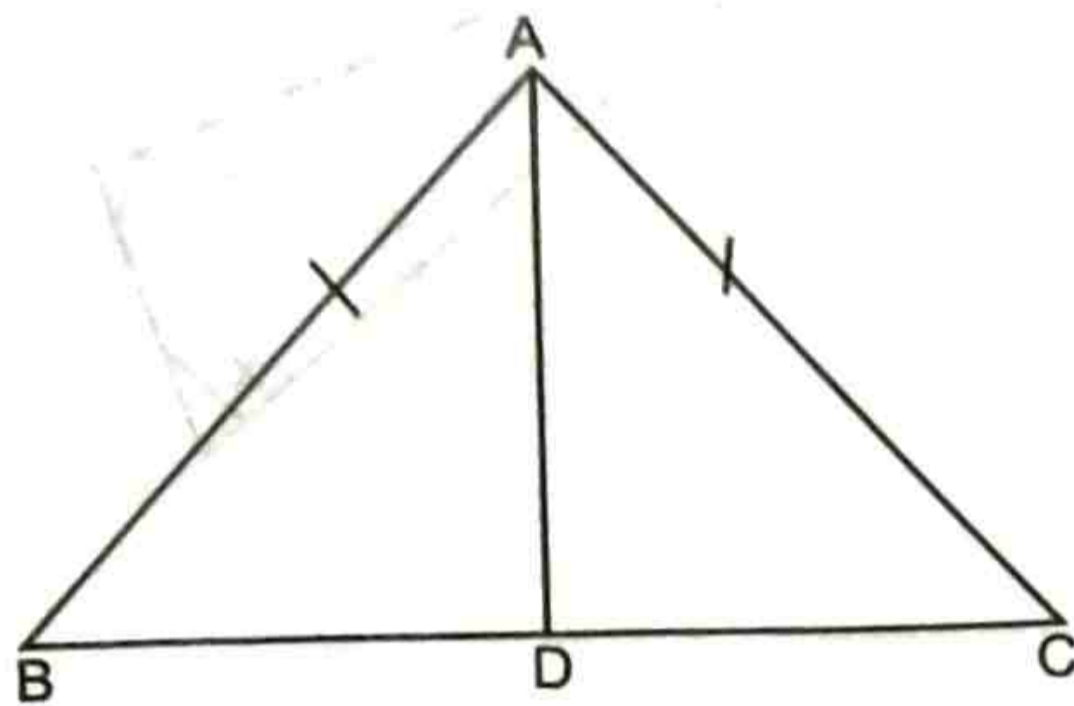
i) State three pairs of equal parts in triangles ADB and ADC.

II) Is △ADB congruent to △ADC? Give reasons

III) Is ∟B = ∟C? Give reasons.

_____

_____

_____

_____

D. 2) Draw rough sketches for the following. **(1)**

1) In △PQR, PQ and PR are altitude of the triangle.

_____

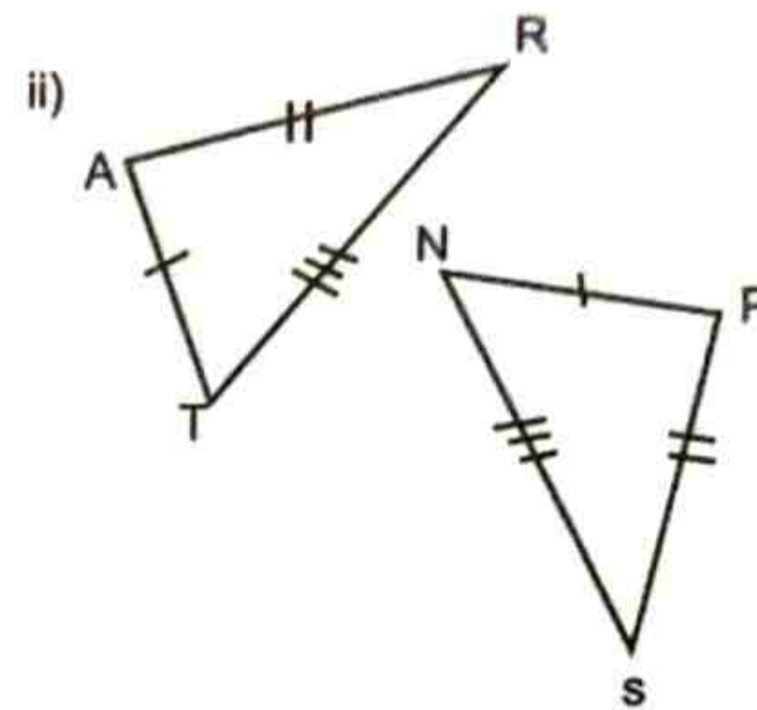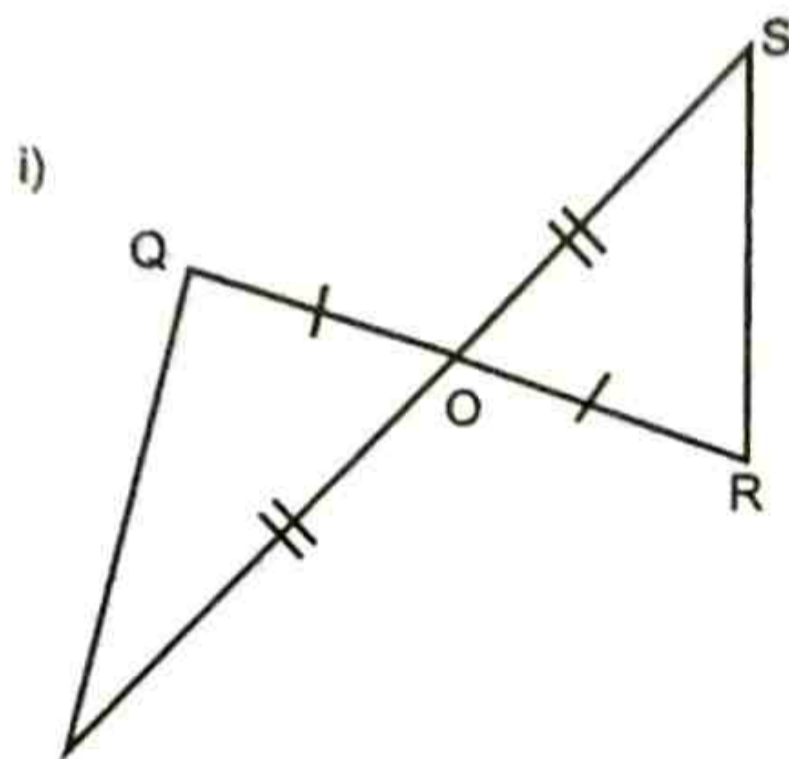2) In △ MAT, AD is a median   (1)

_____

D.1 State the congruence criterion by which the given two triangles are Congruent in the following figures.   (2)

i)

ii)

_____   _____

ALL THE BEST