

**SECTION B: ATTEMPT THREE QUESTIONS ONLY (45 marks)**

16) The table below shows the marks obtained by students of senior 3 in a certain school.

70	62	55	46	90
68	70	64	68	92
64	46	68	78	62
62	64	90	58	98
55	68	62	64	62

a) Construct a frequency table.

(6 marks)

b) Find the median mark.

(3 marks)

c) Find the mode mark.

(3 marks)

d) Find the mean mark.

(3 marks)

17) The expression  $P(x) = 2x^2 + ax^2 + bx + 6$  is exactly divisible by  $x - 2$ , and on division by  $x + 1$  gives a remainder of  $-12$ .

a) Calculate the values of  $a$  and  $b$ .

(8 marks)

b) Factorize completely the expression  $P(x)$ .

(4 marks)

c) Hence solve the equation  $P(x) = 0$

(3 marks)

18) In a certain school there are 87 students in S3. 43 of these play tennis, 42 play football, 47 play volleyball, 15 play tennis and volleyball, 17 play volleyball and football, 21 play tennis and football. Each student plays at least one of the three games.

a) Represent this information in a venn diagram.

(9 marks)

b) Find the number of students who play all the three games.

(4 marks)

c) Find the number of students who play two of these games only.

(2 marks)

19) The points  $A(-5, 3.5)$ ,  $B(1, 0.5)$  and  $C(-6, -6)$  are the vertices of a triangle.

a) Find the lengths of  $AB$ ,  $AC$  and  $BC$ .

(6 marks)

b) Show that  $ABC$  is an isosceles triangle.

(4 marks)

c) Find the midpoint,  $P$ , of  $AB$ .

(3 marks)

d) Find the length of  $PC$ .

(2 marks)

20)  $A(2, 4)$ ,  $B(6, 4)$  and  $C(7, 2)$  are the vertices of a triangle. Find the image of the triangle under reflection in the line:

(15 marks)

a)  $x$ -axis, labelling them as  $A'$ ,  $B'$ ,  $C'$ .

b)  $y$ -axis, labelling them as  $A''$ ,  $B''$ ,  $C''$ .

c) Write down the coordinates for each image.

-----<sup>4</sup> END -----

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**Michael Hoelscher**



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