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MATHEMATICS



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INTERNATIONAL GCSE (9-1)

1. Here are some integers in its ascending order.

a 4 b 5 8 12

Median of the integers is 5

Mean of the integers is 6

Work out the value of a , and the value of b .

a) Find the mode if available.

b) Find the range of the dataset.

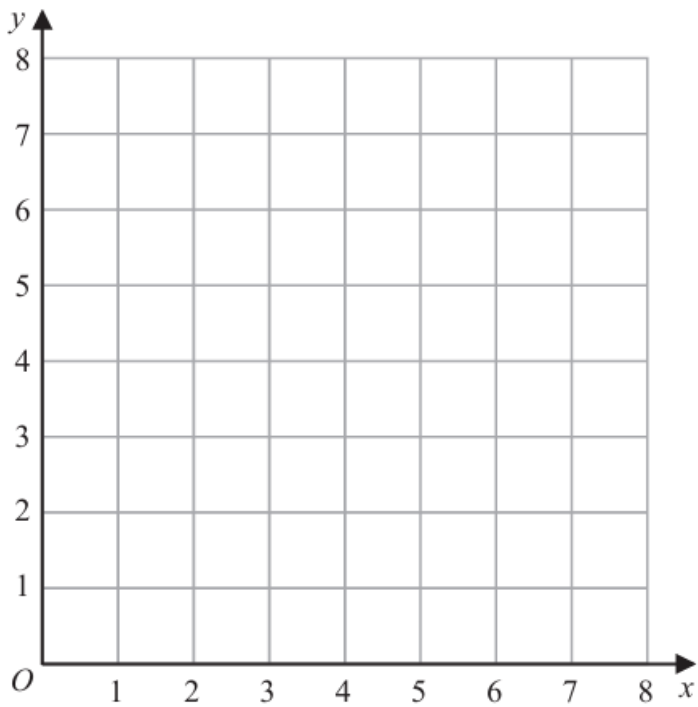
2. On the grid draw and label with its equation the straight line with equation.

- i. $y = 3$
- ii. $y = x + 1$
- iii. $y = 7 - x$

Then show, by shading on the grid, the region that satisfies all three of the requirements.

$$y < 3, y \geq x + 1, y + x \geq 7$$

Label the region R



3. Locus of an aero plane is given by the diagram given below (diagram is not in scale). Assume that the constant speed between A and B is 80km/h and the constant speed from B to C is 100km/h. it took totally 10hrs to travel from A to C. ratio of the time taken to travel from A to B and B to C is given as 3:2. Given that the $\angle ABC = 120^\circ$. Work out the shortest distance between town A and C

