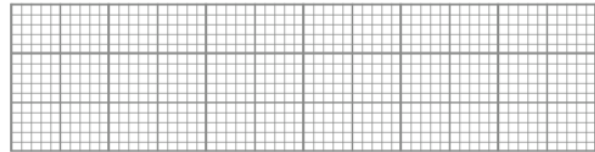


O is the centre of the circle.  
Find angle AOB

The lightest carp in a tank is 2kg.  
The lower quartile is 5kg.  
The median is 7kg.  
The range is 13kg and interquartile range is 8kg.



Draw a box plot to show this information

A class of 10 girls and 15 boys sit a test.

The mean mark for the boys is 75.  
The mean mark for the girls is 82.

Work out the mean mark for the whole class.

A rectangular field has:

length 160m, to 2 significant figures.  
width 81m, to 2 significant figures.

Calculate the upper bound for the area of the field.

$$\mathbf{c} = \begin{pmatrix} -3 \\ q \end{pmatrix} \quad \mathbf{d} = \begin{pmatrix} p \\ 2 \end{pmatrix}$$

$$\text{Given } 4\mathbf{d} - \mathbf{c} = \begin{pmatrix} 5 \\ 10 \end{pmatrix}$$

Work out the values of p and q