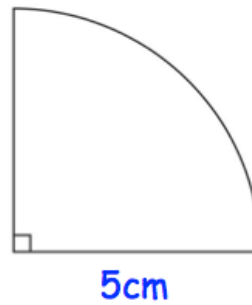




Calculate the perimeter of this quarter circle



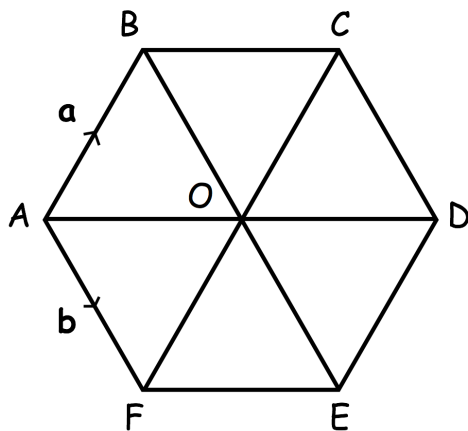
The mean of four numbers is 10.
Three of the numbers are 9, 11 and 7.

Work out the fourth number.

Input \rightarrow $\times \frac{3}{4}$ \rightarrow $\div \frac{2}{3}$ \rightarrow **Output**

Find the output if the input is 5

ABCDEF is a regular hexagon, with centre O.



$$\vec{AB} = \mathbf{a} \quad \vec{AF} = \mathbf{b}$$

Express in terms of \mathbf{a} and \mathbf{b} the vector

$$\vec{FC}$$

Express in terms of \mathbf{a} and \mathbf{b} the vector

$$\vec{AO}$$