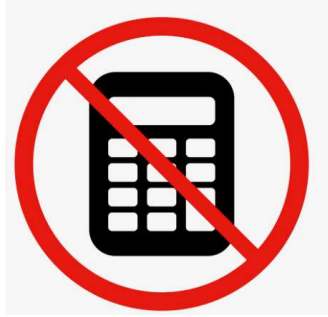


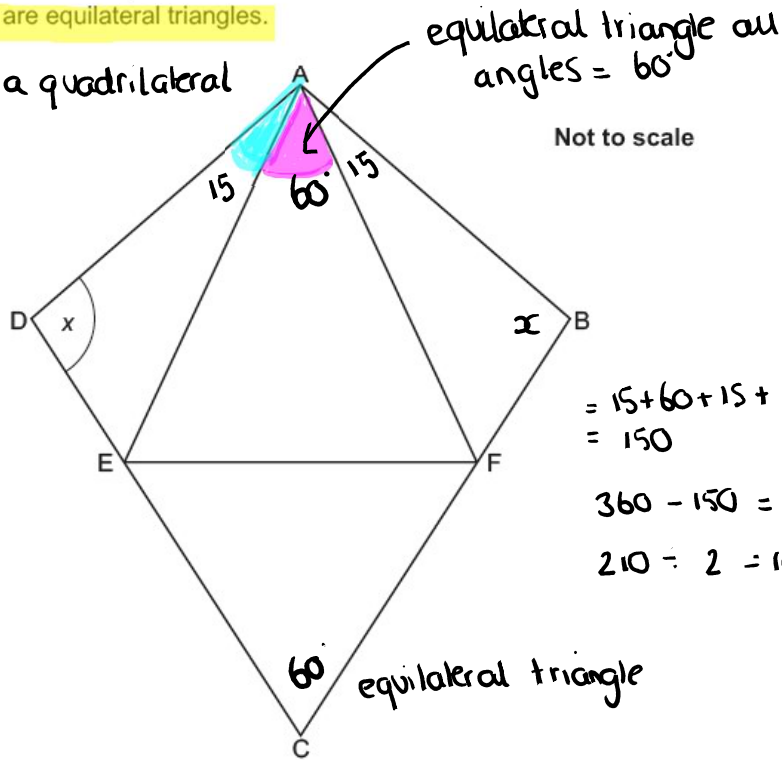
Question of the day

Day 11



The diagram shows a kite, ABCD.
 AFE and CEF are equilateral triangles.

Angles in a quadrilateral
 = 360°



Not to scale

$$= 15 + 60 + 15 + 60$$

$$= 150$$

$$360 - 150 = 210$$

$$210 \div 2 = 105$$

use the property of a
kite

$$DAE : EAF$$

$$\times 15 \left(\begin{array}{l} 1 : 4 \\ \rightarrow 15 : 60 \end{array} \right) \times 15$$

(b) The ratio of angle DAE : angle EAF = 1 : 4.

Work out angle x.

Write on the diagram the values of any other angles you use in your working.

(b) $x = 105 \dots \dots \dots \text{°}$ [4]

(a) Write down a mathematical name for quadrilateral AFCE.

all sides are equal length

(a) Rhombus [1]