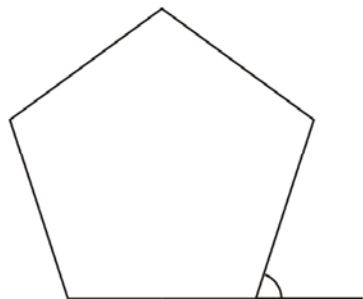


1. Each exterior angle of a regular polygon is 30° .

Work out the number of sides of the polygon.

(2 marks)

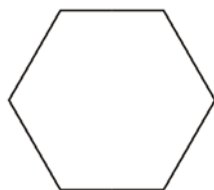
2.



Work out the size of an exterior angle of a regular pentagon.

(2 marks)

3.



Calculate the size of the exterior angle of a regular hexagon.

(2 marks)

4. The size of each exterior angle of a regular polygon is 40° .

Work out the number of sides of the regular polygon.

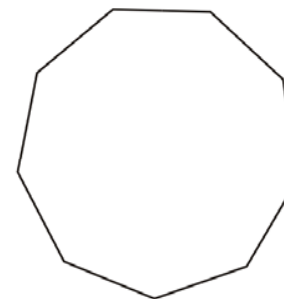
(2 marks)

5. The size of each interior angle of a regular polygon is 156° .

Work out the number of sides of the polygon.

(3 marks)

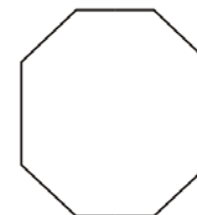
6. Here is a regular polygon with 9 sides.



Work out the size of an exterior angle.

(2 marks)

7.



- (a) Work out the size of each interior angle of a regular octagon.

(3)

The size of each exterior angle of a regular polygon is 30°

- (b) Work out the number of sides of the polygon.

(2)
(5 marks)

8.

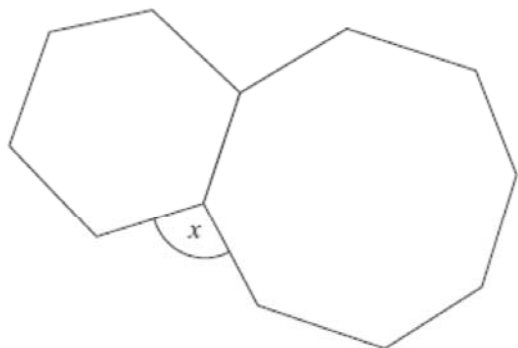


The diagram shows part of a **regular** 10-sided polygon.

Work out the size of the angle marked x .

(3 marks)

9.

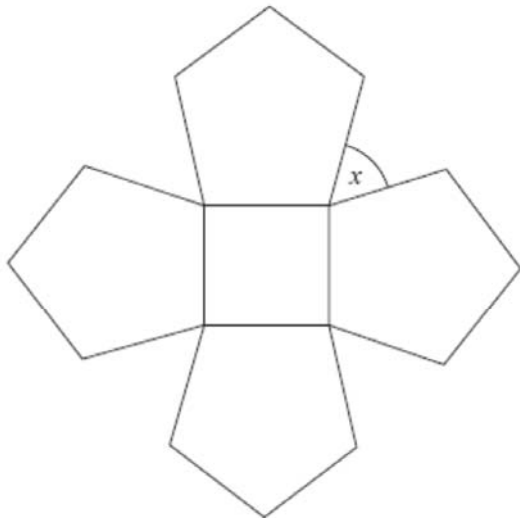


The diagram shows a regular hexagon and a regular octagon.

Calculate the size of the angle marked x .
You must show all your working.

(4 marks)

10.

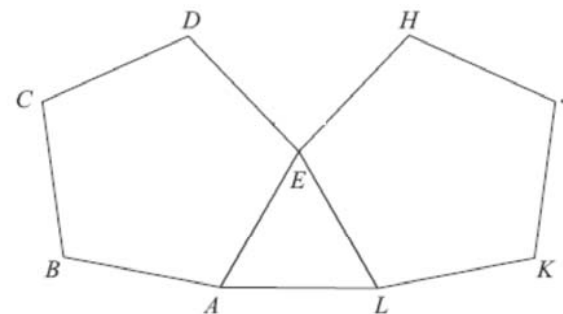


The diagram shows a square and 4 regular pentagons.

Work out the size of the angle marked x .

(4 marks)

11.

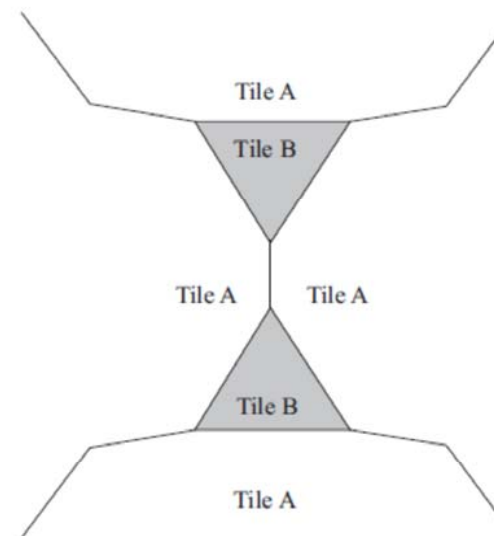


$ABCDE$ and $EHJKL$ are regular pentagons.
 AEL is an equilateral triangle.

Work out the size of angle DEH .

(4 marks)

12. The diagram shows part of a pattern made from tiles.



The pattern is made from two types of tiles, tile A and tile B.

Both tile A and tile B are regular polygons.

Work out the number of sides tile A has.

(4 marks)