TASK **4.4**
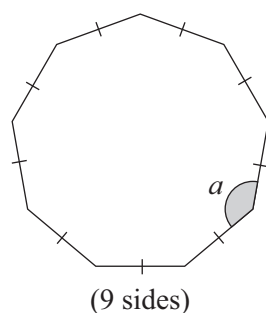
1. An octagon has 8 sides. Find the size of each exterior angle of a *regular* octagon.

2. A decagon has 10 sides.
   a Find the size of each exterior angle of a *regular* decagon.
   b Find the size of each interior angle of a *regular* decagon.

3. Find the size of angle *a*.

(9 sides)

4. Find the exterior angles of *regular* polygons with
   a 18 sides   **b** 24 sides   **c** 45 sides

5. Find the interior angle of each polygon in Question **4**.

6. The exterior angle of a *regular* polygon is 24°. How many sides has the polygon?

interior angle

24°

7. The interior angle of a *regular* polygon is 162°. How many sides has the polygon?

8. In a *regular* polygon, each exterior angle is 140° less than each interior angle. How many sides has the polygon?

9. Part of a *regular* dodecagon (12 sides) is shown. O is the centre of the polygon. Find the value of *x*.

O