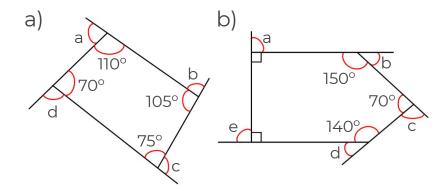
Maths

Miss Davies

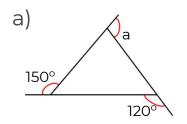


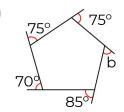
1. Work out the size of each exterior angle of the polygons.

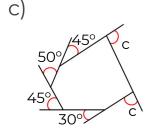


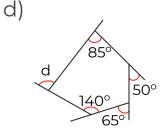
What is the sum of the exterior angles in part a and b

- 2. What is the sum of the exterior angles of any polygon?
- 3. Find the missing angles.











4. Work out the exterior angles of regular polygons with the given number of sides.

| Number of sides | Size of the exterior angle |
|-----------------|----------------------------|
| 3               |                            |
| 4               |                            |
| 5               |                            |
| 6               |                            |
| 10              |                            |
| 36              |                            |

5. A regular polygon has n sides. Write an expression to represent the size of each exterior angle.

6. A regular polygon has an exterior angle of 45°.

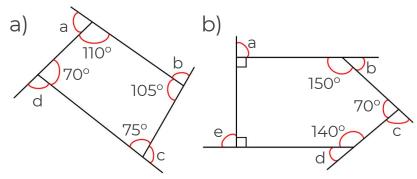
How many sides does the regular polygon have?



## **Answers**

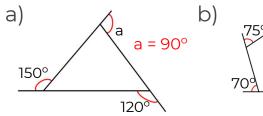


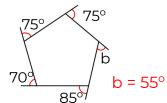
1. Work out the size of each exterior angle of the polygons.

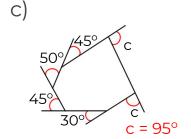


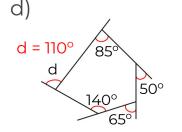
What is the sum of the exterior angles in part a and b

- 2. What is the sum of the exterior angles of any polygon?
- 3. Find the missing angles.











4. Work out the exterior angles of regular polygons with the given number of sides.

| Number of sides | Size of the exterior angle |
|-----------------|----------------------------|
| 3               | 120°                       |
| 4               | 90°                        |
| 5               | 72°                        |
| 6               | 60°                        |
| 10              | 36°                        |
| 36              | 10°                        |

5. A regular polygon has n sides. Write an expression to represent the size of each exterior angle.  $\frac{360}{n}$ 

6. A regular polygon has an exterior angle of 45°.

How many sides does the regular polygon have? 8 sides

