Find Missing Angles when 2 or more Polygons are Joined
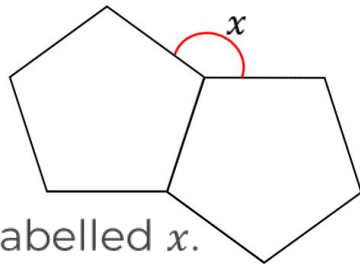
Maths

Miss Davies
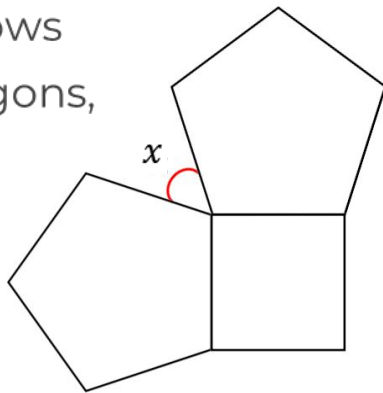
Finding Missing Angles when Polygons are Joined
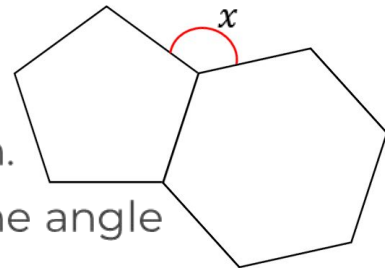
1. Given that the interior angle in a pentagon is 108º, calculate the angle labelled x.
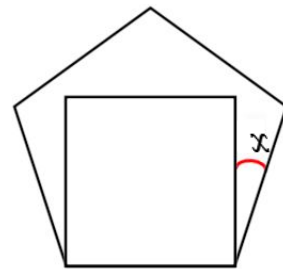

2. The diagram shows two regular pentagons, and a square. Work out the size of angle x.

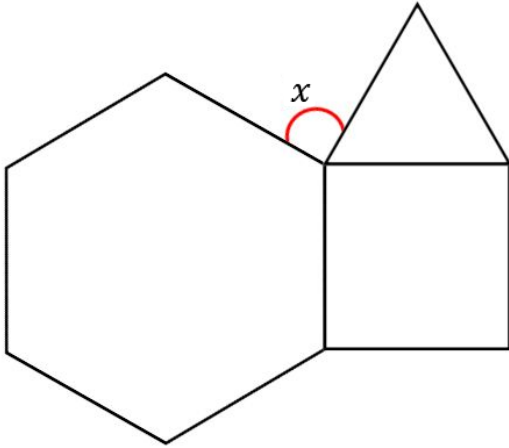3. The diagram shows a regular pentagon, and a regular hexagon. Calculate the size of the angle marked x.

4. The diagram shows a regular pentagon and a square. Work out the size of the angle labelled x.
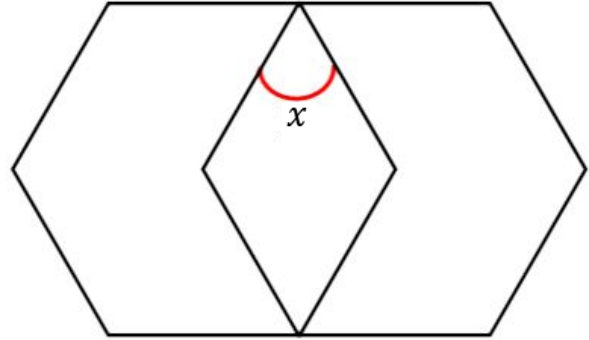
Finding Missing Angles when Polygons are Joined

5. The diagram shows three regular polygons that meet at a point. Calculate the size of the angle marked x.

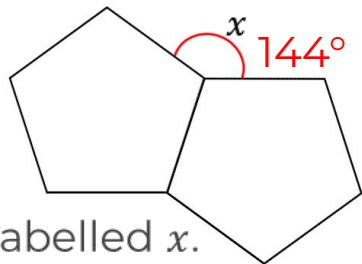6. The diagram shows two regular hexagons.
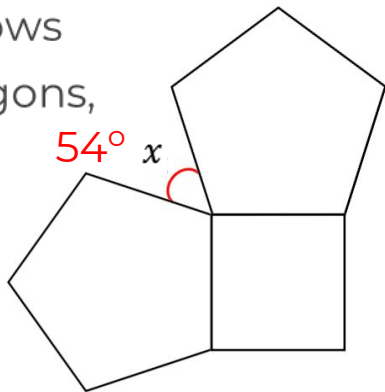Calculate the angle labelled x.

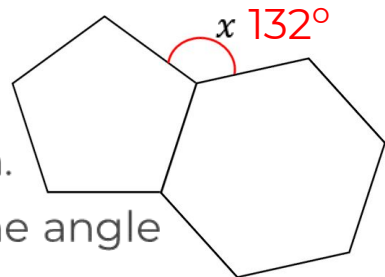# Answers

Finding Missing Angles when Polygons are Joined

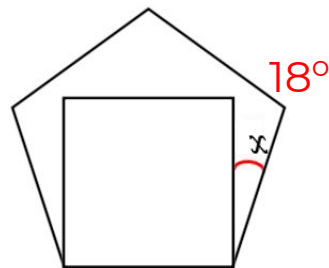1. Given that the interior angle in a pentagon is 108°, calculate the angle labelled x.

x 144°

2. The diagram shows two regular pentagons, and a square. Work out the size of angle x.

54° x

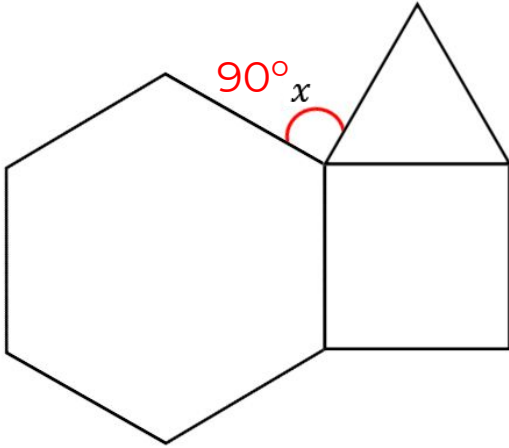3. The diagram shows a regular pentagon, and a regular hexagon. Calculate the size of the angle marked x.

x 132°

4. The diagram shows a regular pentagon and a square. Work out the size of the angle labelled x.

18°

x

Finding Missing Angles when Polygons are Joined

5. The diagram shows three regular polygons that meet at a point. Calculate the size of the angle marked x.

90° x

6. The diagram shows two regular hexagons.
Calculate the angle labelled x.

x
60°