# Module assessment — tessellate a quilt block

MODULE 6 · 2D AND 3D SHAPE, ANGLES, SYMMETRY  SHAPE & SPACE

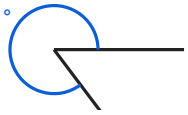
## HOW TO ANSWER TODAY

- **Transformations.** Slide without turning → translation. Flip (mirror) → reflection. Turn → rotation.
  Triangle slid left → translation · Letter flipped → reflection
- **Classify an angle.** Acute < 90° · right = 90° · obtuse 90°–180° · straight = 180° · reflex > 180°.
  75° → acute · 120° → obtuse · 220° → reflex
- **Name a 2D shape.** Count sides, check which are equal, count right angles, check parallel pairs. Then name it.
  4 equal sides, 0 right angles → rhombus · 4 sides, 1 pair parallel → trapezium

## STRETCH PROBLEMS

1. Saoirse is painting letters onto papier-mâché masks for the 5th class school play. She paints a letter d on a clear plastic sheet, then flips the sheet over to print it on a mask, and now the letter d looks like a letter b after the move. Is the transformation a translation, a reflection or a rotation?

   > Name the transformation described: the letter d looks like a letter b after the move. (Choose translation, reflection or rotation.)

2. 

   Aoife is pinning a tricolour streamer across the class door for Seachtain na Gaeilge. The streamer turns through an angle of **307°** from its starting position. Is this angle acute, right, obtuse, straight or reflex?

3. Cian is painting shapes onto a banner for the GAA county finals day. His teacher asks him to add a shape with **6** equal sides and **6** equal angles in the centre. Which 2D shape should Cian paint?

   > Which 2D shape has these properties: 6 equal sides and 6 equal angles?

4. Tadhg is painting a banner for the GAA finals day at the local pitch. The banner has **4** sides, with **1** pair of parallel sides and the other **2** sides equal in length. Which 2D shape is the banner?

5. Saoirse is painting letters on papier-mâché masks for the school play. She paints a letter d on one mask, but when she looks at it in the dressing-room mirror, the letter d looks like a letter b after the move. Is this a translation, a reflection or a rotation?

   > Name the transformation described: the letter d looks like a letter b after the move. (Choose translation, reflection or rotation.)