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CFE Level 3

Working at Home Workbook

Symmetry

Learning Intention. To be able to -

Identify line symmetry and create symmetrical shapes

Identify rotational symmetry

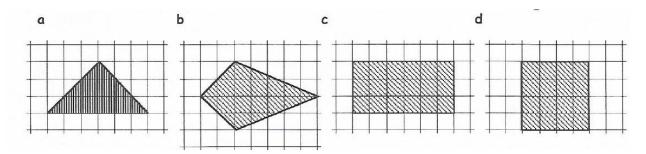
Create a shape using turn symmetry

Use translation symmetry to tile a plane

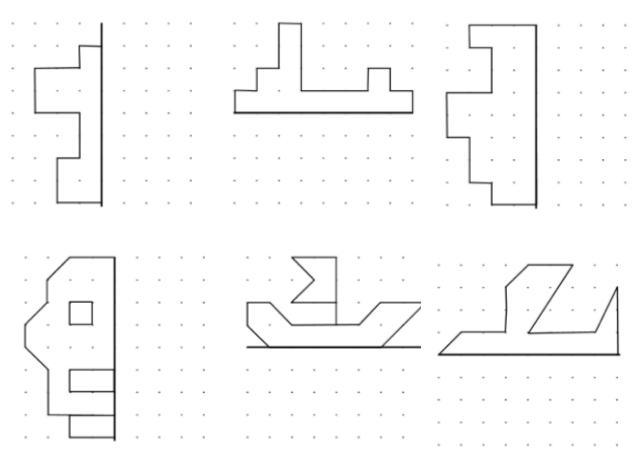
Identify line symmetry and create symmetrical shapes

Questions 1

1. Copy each of the shapes and mark all lines of symmetry:



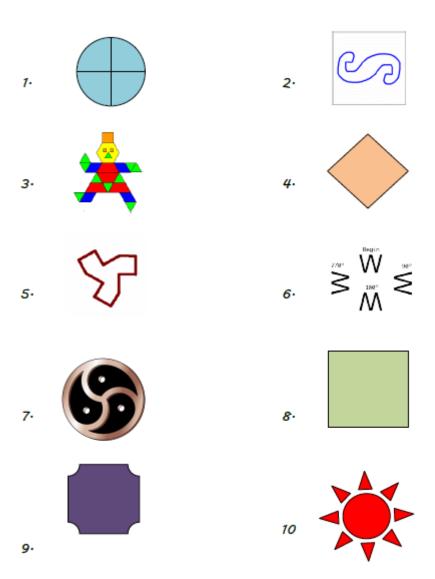
2. Copy each of the diagrams and neatly draw the other half of the shape using the dotted line as a line of symmetry.



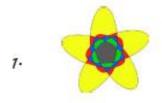
Identify rotational symmetry

Questions 1

1. Which of the following shapes have half-turn symmetry?



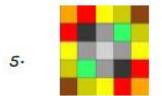
2. State what kind of turn symmetry each of the following shapes have $(\frac{1}{2} turn, \frac{1}{3}, \frac{1}{4})$

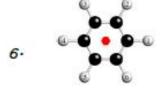
















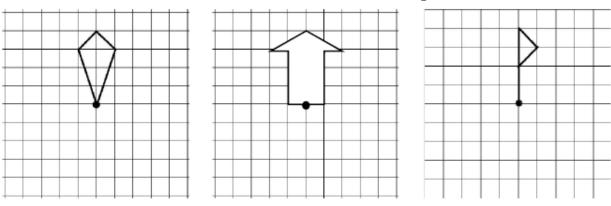




Create a shape using turn symmetry

Questions 1

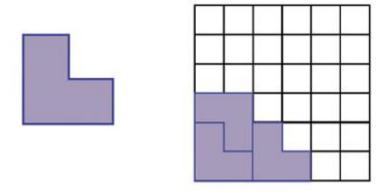
1. Copy each of these shapes and rotate each one by 180°, ($\frac{1}{2}$ a turn), around the circle:



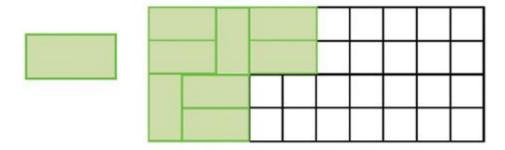
Use translation symmetry to tile a plane

Questions 1

1. Use the shape below to continue the tessellation:



 $\ensuremath{\mathsf{2}}.$ Use the shape below to continue the tessellation:



3. Make a copy of this tile in the centre of a page and shade it. Show how to completely surround it with congruent tiles.

