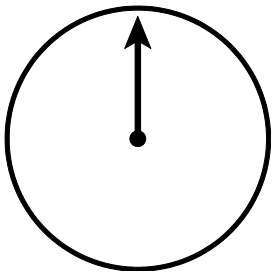
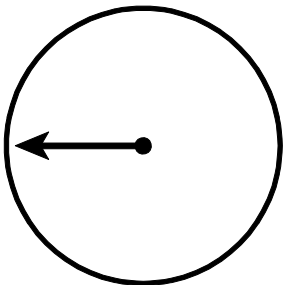
Geometry – Position and Direction

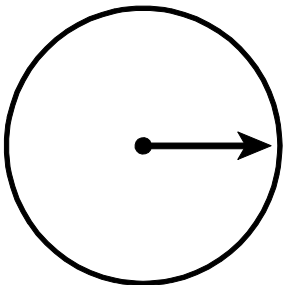
1 Here is a spinner.

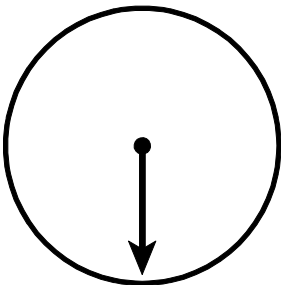


The arrow makes half a turn.

Tick (✓) the spinner that shows the arrow on the spinner after the turn.

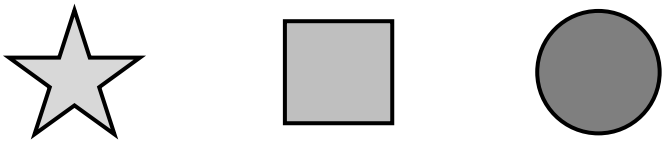






2 Here is the start of a pattern.

Circle the shape that comes next in the pattern.



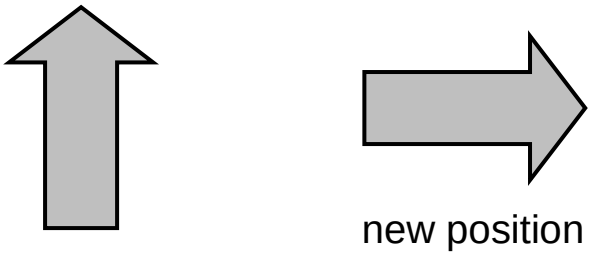
3 Simi and Jack are finding out about turns.

Match the turn to the number of right angles.

One has been done for you.

Full turn	1 right-angle
$\frac{1}{2}$ turn	4 right-angles
$\frac{1}{4}$ turn	3 right-angles
$\frac{3}{4}$ turn	2 right-angles

4 A shape is moved through a turn to a new position.



new position

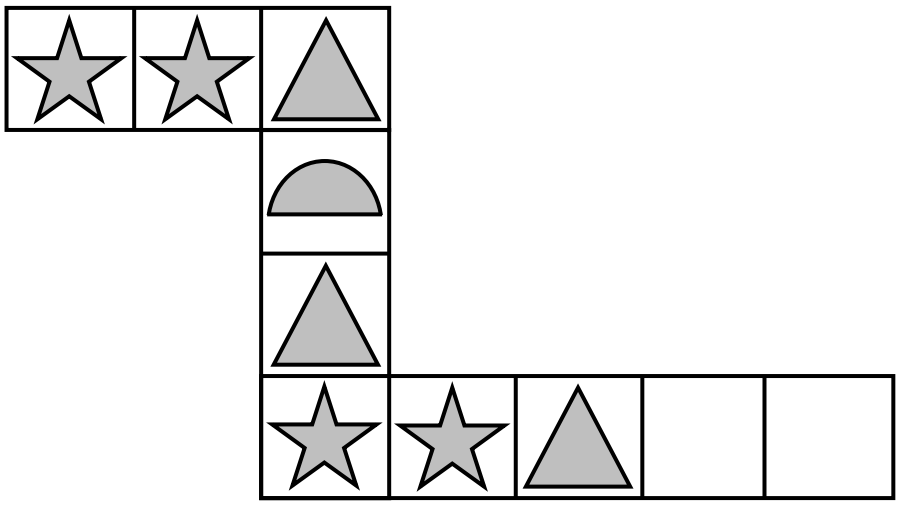
Tick (✓) the statement that describes the turn.

$\frac{3}{4}$ turn clockwise ☐

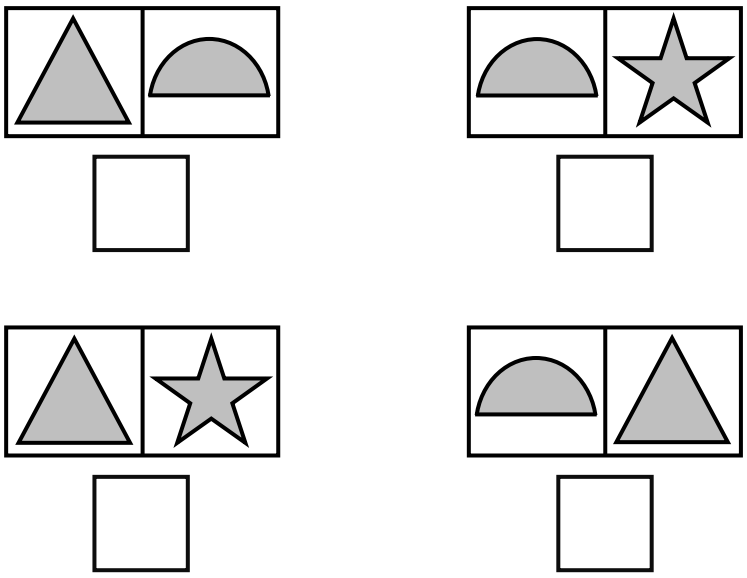
$\frac{1}{2}$ turn anti-clockwise ☐

$\frac{1}{4}$ turn clockwise ☐

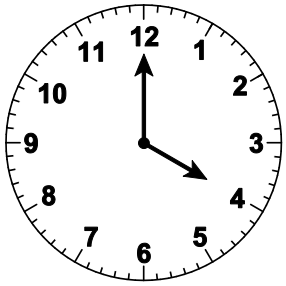
5 Here is the start of a repeating pattern.



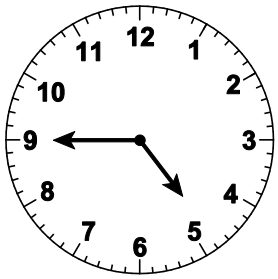
Tick (✓) the pair of shapes that comes next in the pattern.



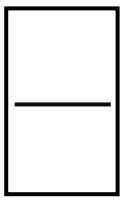
6 A clock shows 4 o'clock.



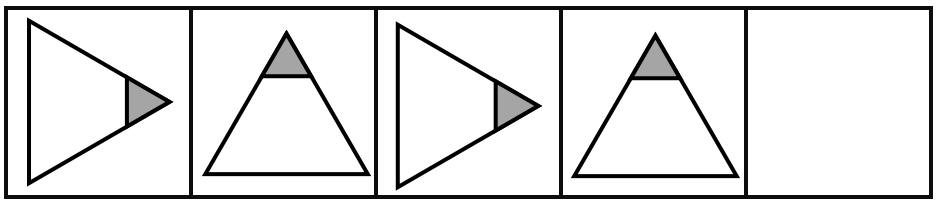
The clock hands move and now show the time below.



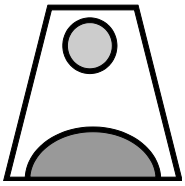
What fraction of a turn has the minute hand made?



7 Complete the pattern.

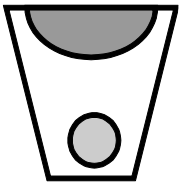


8 This shape is turned anti-clockwise through a three-quarter turn.



What will the shape look like **after** it has been turned?

Tick (✓) one.



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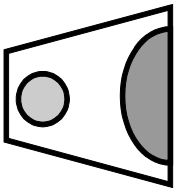

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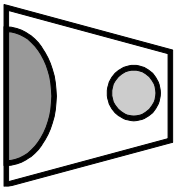

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Total _____ / 8 marks