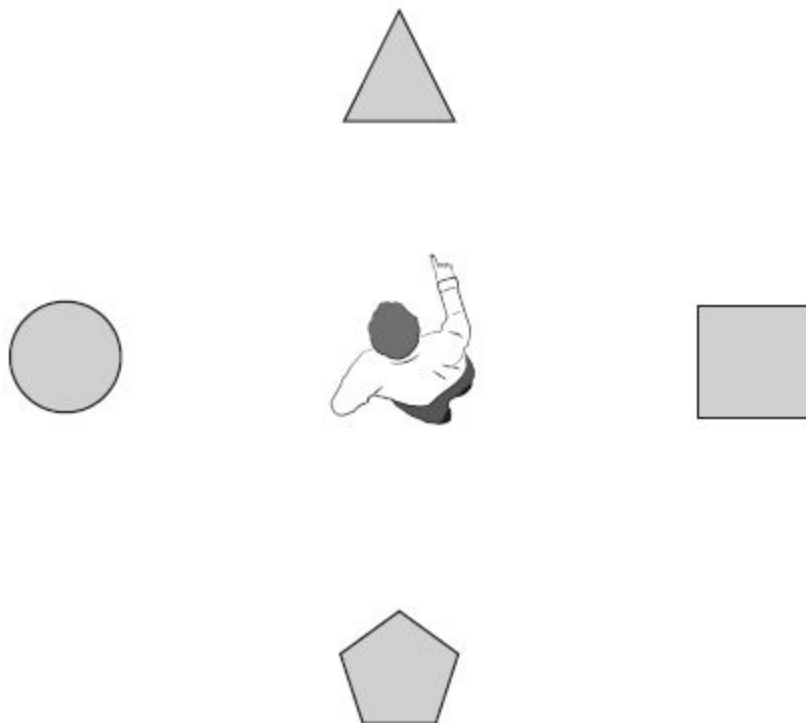


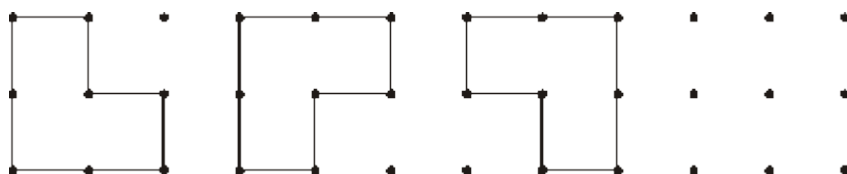
**1** Sam is pointing at the triangle.



He turns a **half turn**.

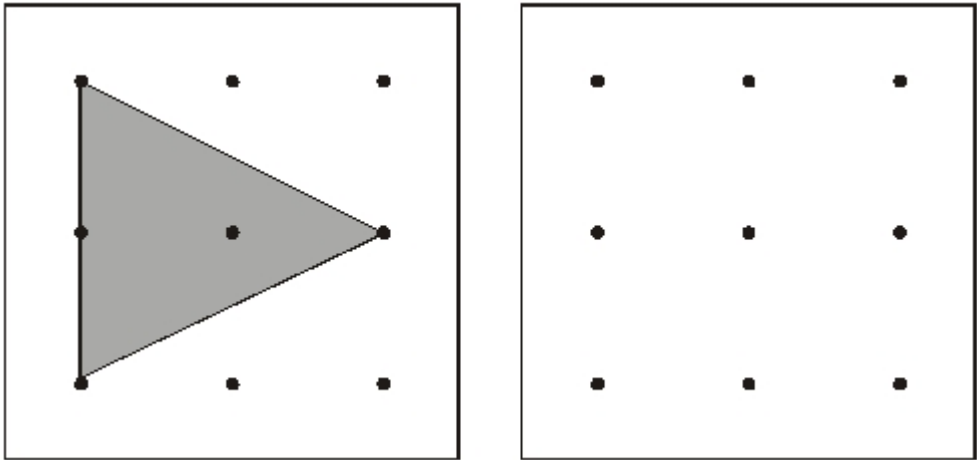
Tick the shape Sam is pointing at after the half turn.

**2** Draw the next shape in this pattern of quarter turns.



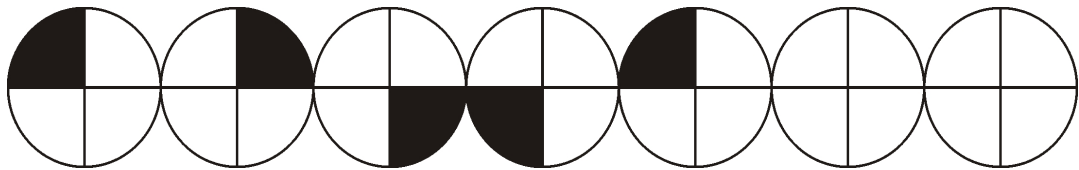
3

Draw how this triangle will look after a half turn.



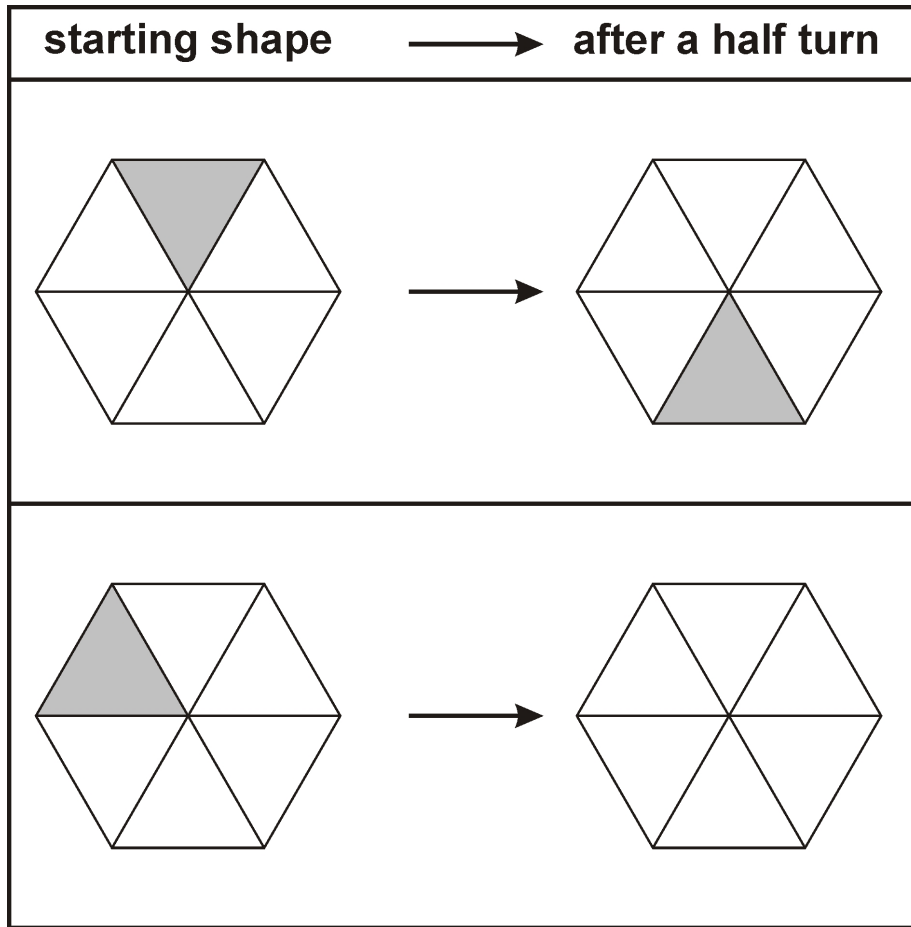
4

Continue the pattern in the next two circles.



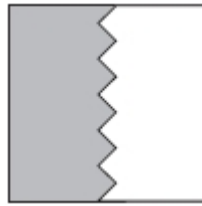
5

Shade the correct triangle in the last hexagon.



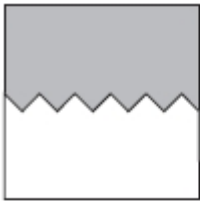
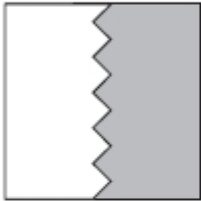
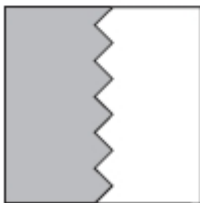
6

This tile is rotated **clockwise** through a three-quarter turn.



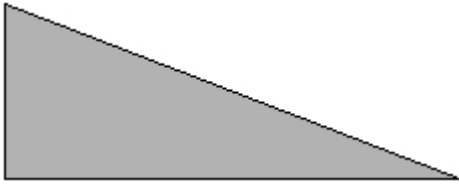
What will the tile look like **after** it has been turned?

Tick **one**.

☐☐☐☐

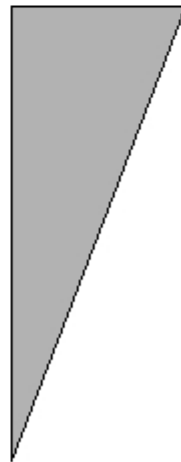
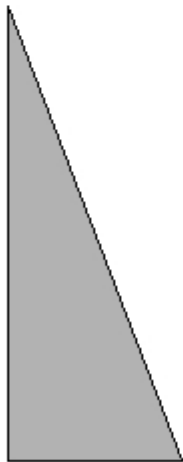
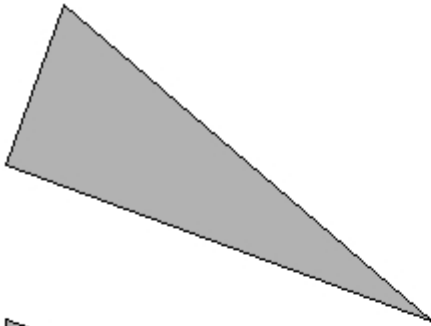
7

Here is a triangle.



Tom turns it one quarter turn clockwise.

Tick (✓) the triangle which shows how it looks **after** the turn.



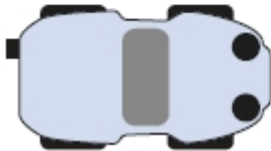
8

Look at this toy car.



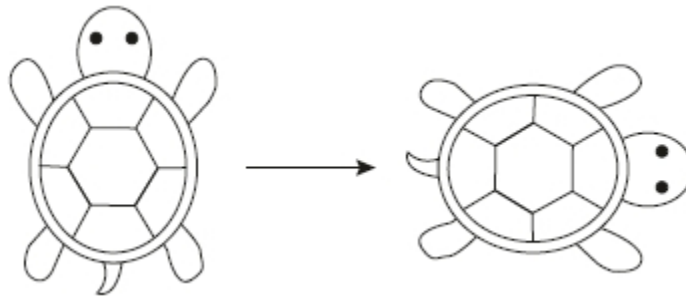
Lee turns the car one quarter turn.

Tick (✓) the picture which shows how the car looks **after** the turn.



9

This turtle is rotated **clockwise**.



How much is the turtle rotated?

Circle your answer.






quarter  
turn

half  
turn

three-quarter  
turn

full  
turn

10

|   |   |  |   |   |   |
|---|---|--|---|---|---|
| 3 | <br>pond |  | <br>swings |   |   |
| 2 |   | <br>trees |   | <br>seesaw |   |
| 1 |   |  | <br>slide  |   |   |
|   | A   | B  | C   | D   | E |

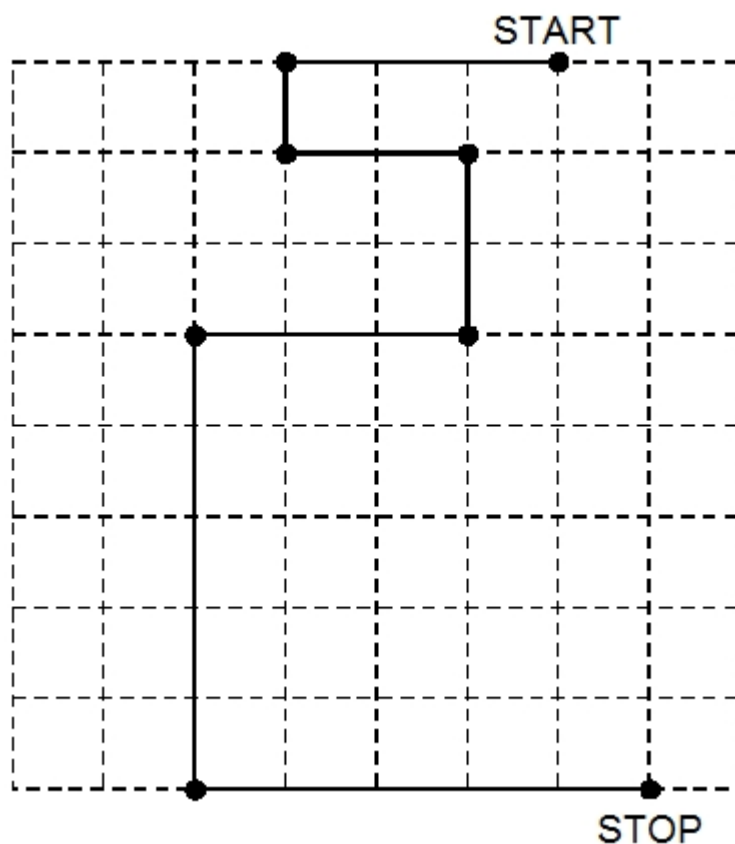
Use the grid to help you complete this table.

|        |    |
|--------|----|
| trees  | B2 |
| slide  | C1 |
| seesaw |    |
|        | D3 |



11

Alan slid his finger along this route from **START** to **STOP**.



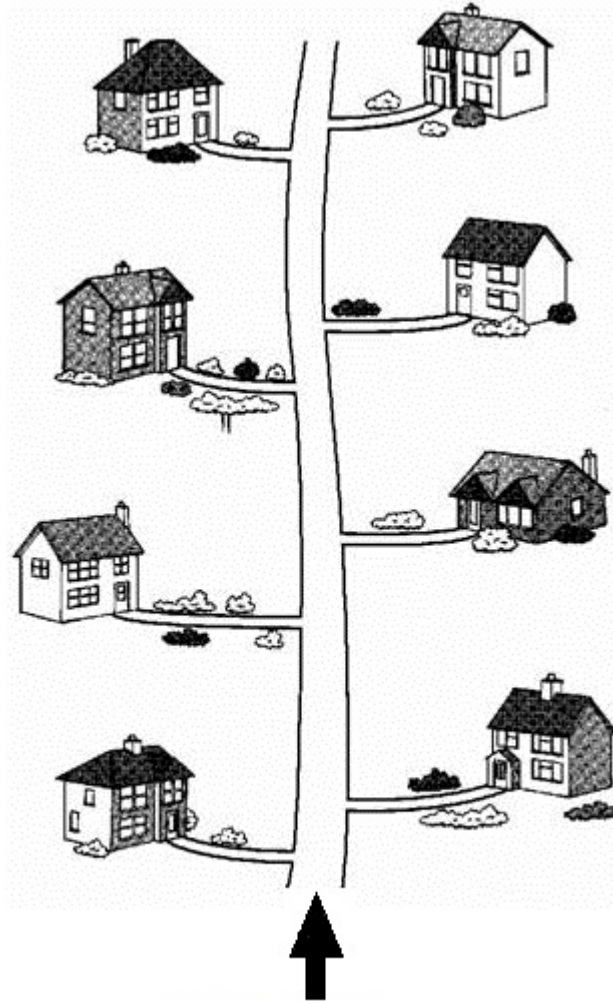
He started writing how his finger moved.

Complete the moves.

left 3  
down 1  
right 2  
down 2  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

12

Look at this map.



Desi starts here

Desi's house is the **2nd** on the **left**.

Tick (✓) it.

13

The tick (✓) is in square **B5**

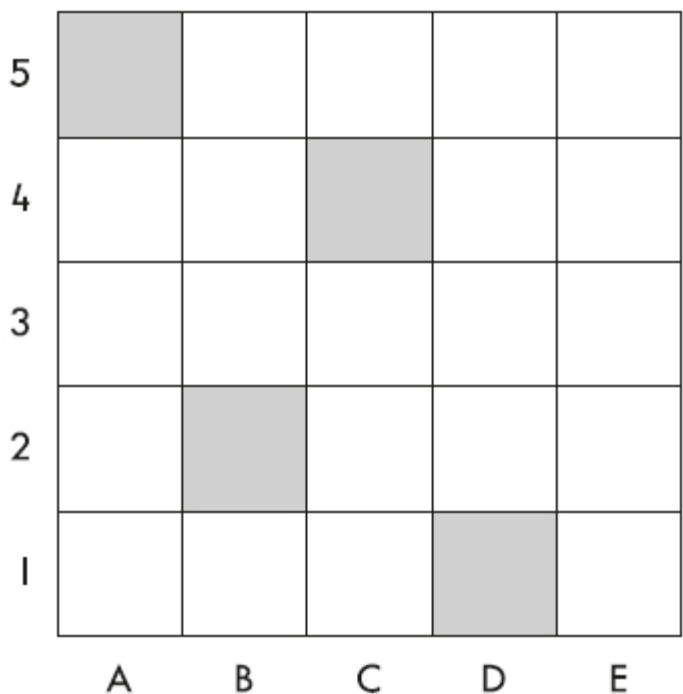
Draw a cross (X) in square **D2**

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 5 |   | ✓ |   |   |   |
| 4 |   |   |   |   |   |
| 3 |   |   |   |   |   |
| 2 |   |   |   |   |   |
| 1 |   |   |   |   |   |
|   | A | B | C | D | E |

14

Look at this grid.

Some squares are grey.



Write which squares are grey.

One is done for you.

|    |
|----|
| A5 |
|    |
|    |
|    |

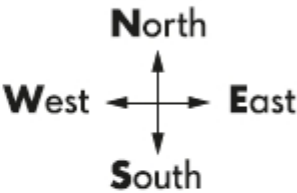
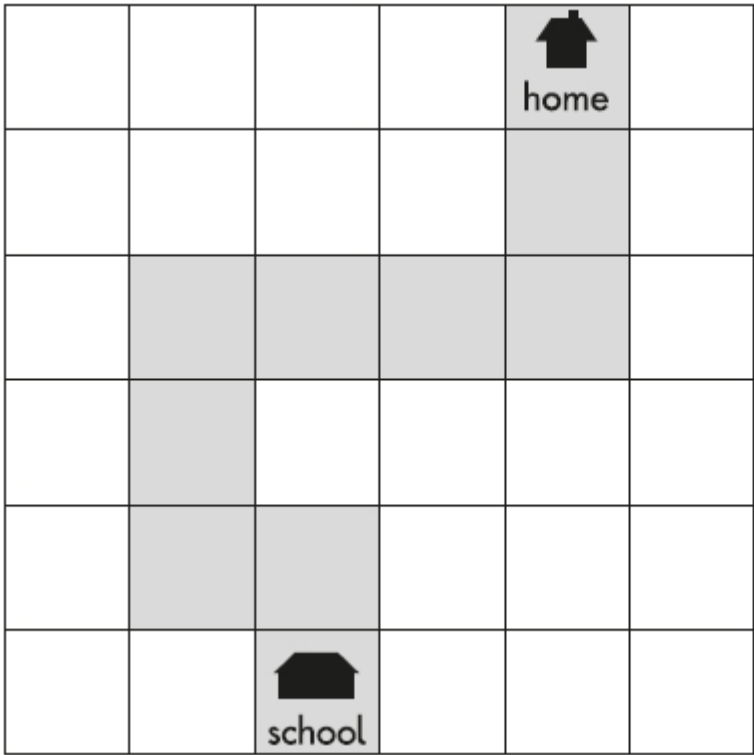
15

Tick (✓) the square which is **exactly halfway** between squares **A1** and **G7**

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 7 |   |   |   |   |   |   |   |
| 6 |   |   |   |   |   |   |   |
| 5 |   |   |   |   |   |   |   |
| 4 |   |   |   |   |   |   |   |
| 3 |   |   |   |   |   |   |   |
| 2 |   |   |   |   |   |   |   |
| 1 |   |   |   |   |   |   |   |
|   | A | B | C | D | E | F | G |

16

Look at the map.



Jack walks along the path from home to school.

Complete the route that Jack walks

home

S2

W3


school

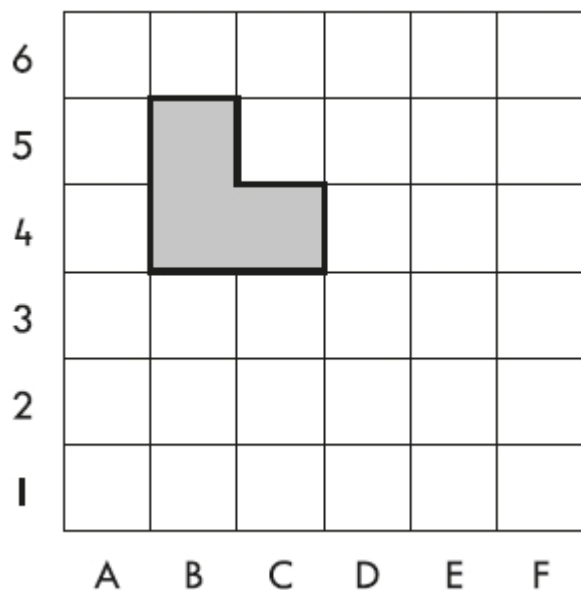
17

Put a tick below the **fourth black bead**.



18

Look at the  shape on the grid.



Part of it is in square **B5**

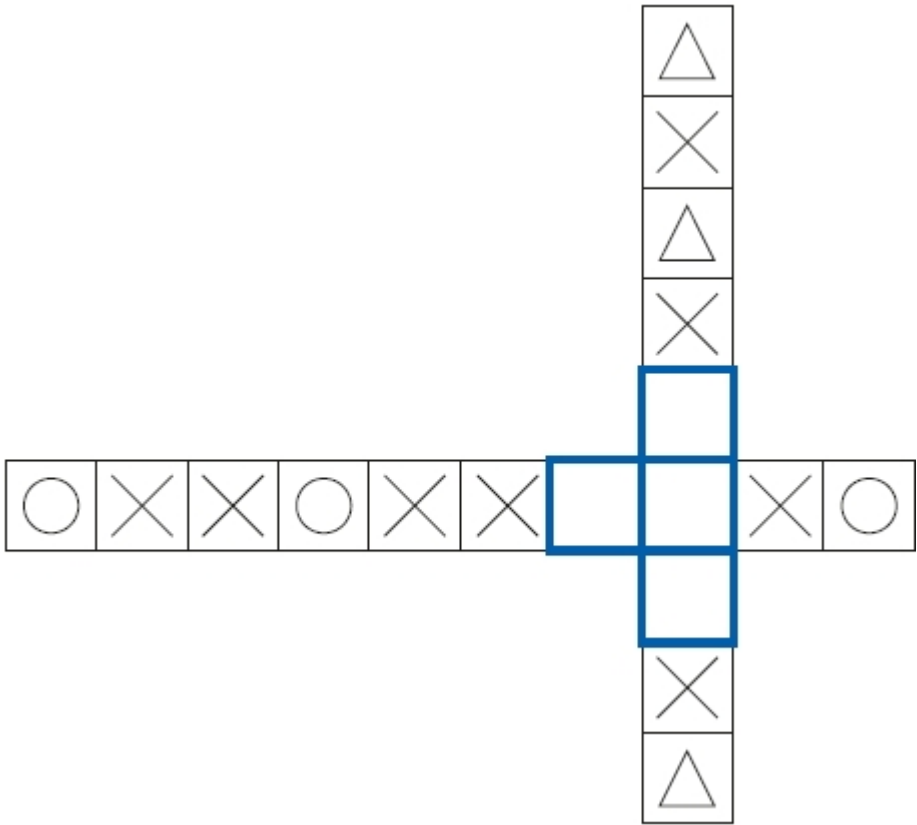
Write the other **two** squares it is in.

and

19

Here are two shape patterns.

Draw a shape in each empty box to make the patterns correct.





20

Put your finger on **Start**.

Move your finger **up 1** square then **across 3** squares.

Tick (✓) the animal your finger stops on.

