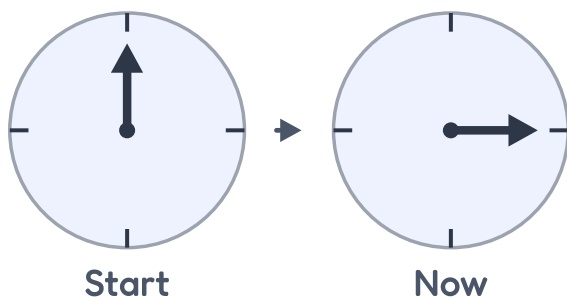


Turns and Right Angles

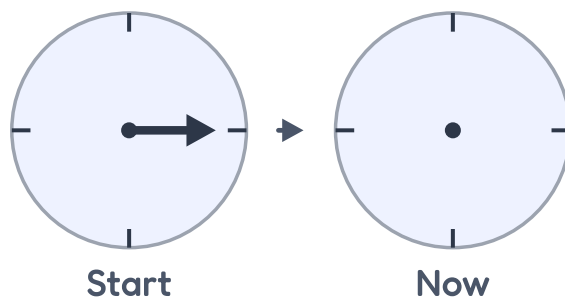
Read the turn. Draw where the arrow points now.

1. Quarter turn
clockwise

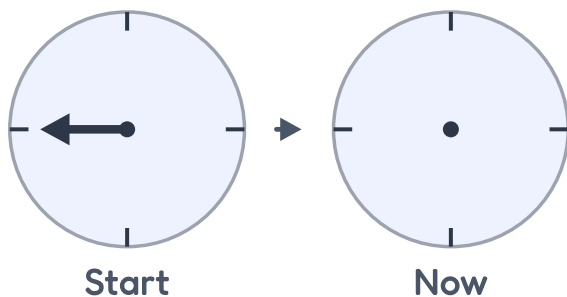
Example



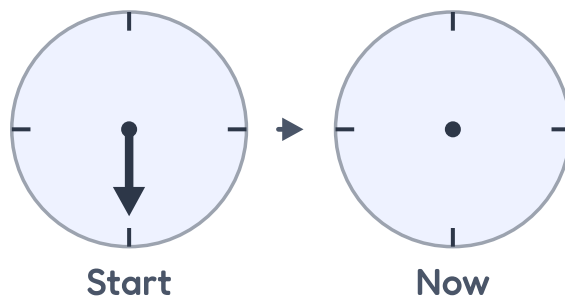
2. Half turn
anticlockwise



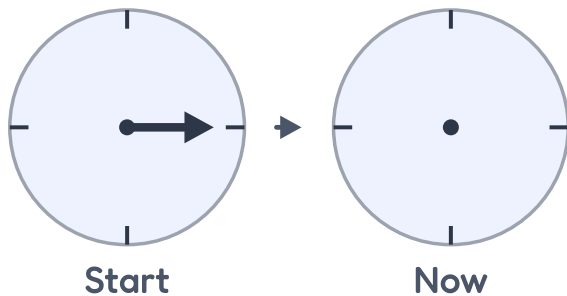
3. Quarter turn
anticlockwise



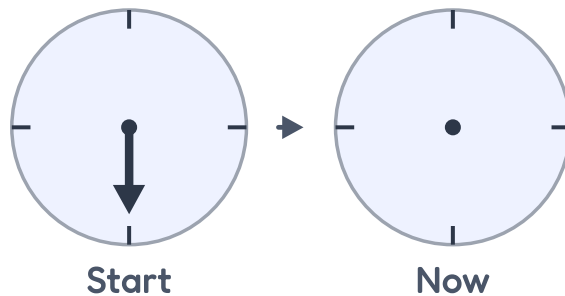
4. Three-quarter turn
clockwise



5. Three-quarter turn
anticlockwise



6. Quarter turn
clockwise



Turns and Right Angles

The grey arrow turns to the black arrow. Circle the turn.

1.



quarter turn

half turn

three-quarter turn

clockwise

anticlockwise

How many right angles? 1

Example

2.



quarter turn

half turn

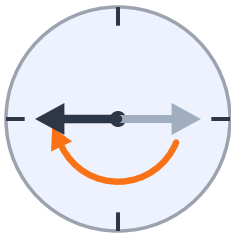
three-quarter turn

clockwise

anticlockwise

How many right angles? _____

3.



quarter turn

half turn

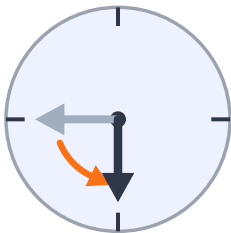
three-quarter turn

clockwise

anticlockwise

How many right angles? _____

4.



quarter turn

half turn

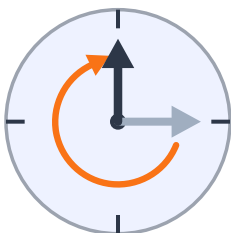
three-quarter turn

clockwise

anticlockwise

How many right angles? _____

5.



quarter turn

half turn

three-quarter turn

clockwise

anticlockwise

How many right angles? _____

Turns and Right Angles

The ladybird turns on the spot. What does it face now?



tree



apple



house



car

The ladybird faces the tree.

Start from the tree each time.

1. A quarter turn clockwise.

It faces the house

Example

2. A half turn clockwise.

It faces the _____

3. A quarter turn anticlockwise.

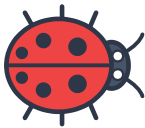
It faces the _____



sun



duck



ball



teddy

The ladybird faces the ball.

Start from the ball each time.

4. A three-quarter turn clockwise.

It faces the _____

5. A half turn anticlockwise.

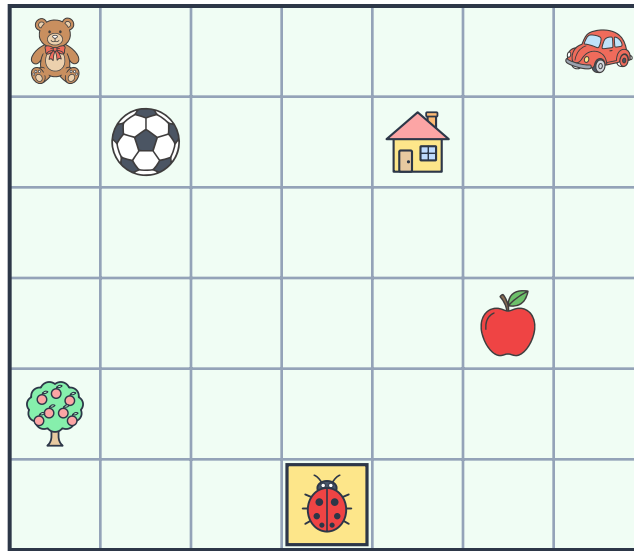
It faces the _____

6. A quarter turn clockwise.

It faces the _____

Turns and Right Angles

Follow each route from the start. Which picture does it reach?



Start

The ladybird starts on the Start square, facing up.

A quarter turn clockwise is a turn to the right.

1. Forward 2, quarter turn clockwise,
forward 2.

It reaches the Example apple

2. Forward 1, quarter turn anticlockwise,
forward 3.

It reaches the _____

3. Forward 4, quarter turn clockwise,
forward 1.

It reaches the _____

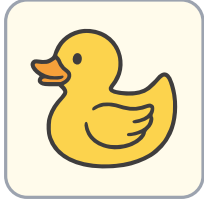
4. Forward 3, quarter turn anticlockwise,
forward 2, quarter turn clockwise,
forward 1.

It reaches the _____

Turns and Right Angles

Circle the picture after the turn. Then circle the matching turn.

1.



**Quarter turn
clockwise**

Example



2.



**Half turn
anticlockwise**



3.



**Quarter turn
anticlockwise**



4.



**Three-quarter turn
clockwise**



Turns that end the same way

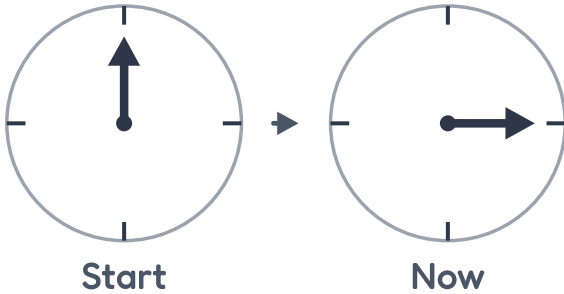
5. A three-quarter turn clockwise ends the same way as a
quarter half three-quarter turn anticlockwise.
6. A quarter turn anticlockwise ends the same way as a
quarter half three-quarter turn clockwise.
7. A half turn clockwise ends the same way as a
quarter half three-quarter turn anticlockwise.

Turns and Right Angles

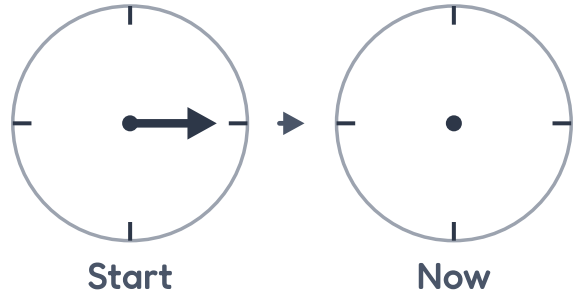
Read the turn. Draw where the arrow points now.

1. Quarter turn
clockwise ↻

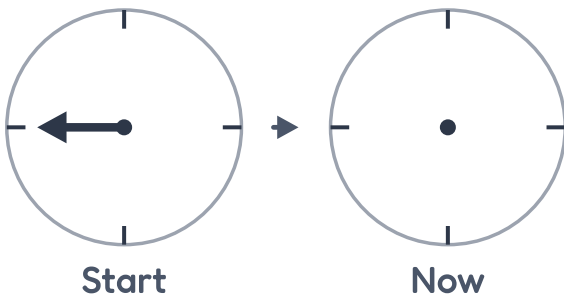
Example



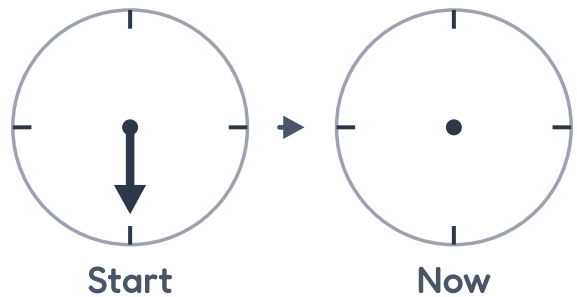
2. Half turn
anticlockwise ↺



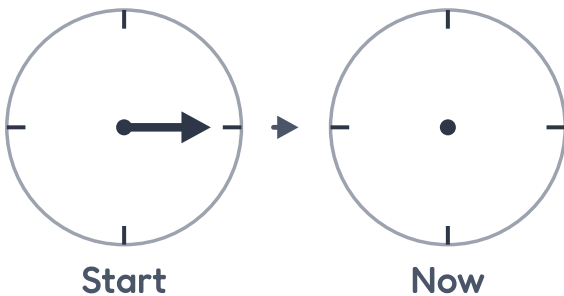
3. Quarter turn
anticlockwise ↺



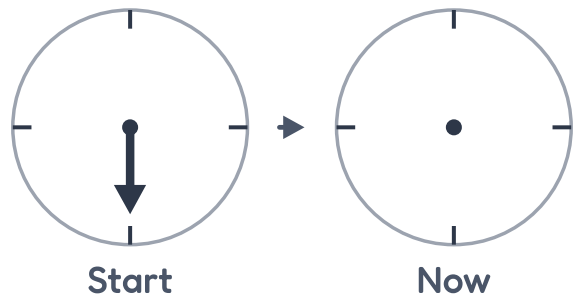
4. Three-quarter turn
clockwise ↻



5. Three-quarter turn
anticlockwise ↺



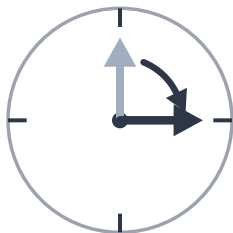
6. Quarter turn
clockwise ↻



Turns and Right Angles

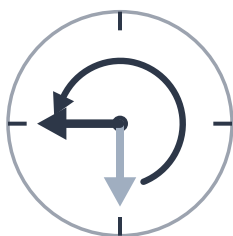
The grey arrow turns to the black arrow. Circle the turn.

1.

**quarter turn****half turn****three-quarter turn****clockwise****anticlockwise**How many right angles? 1

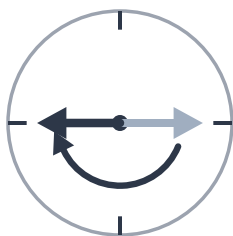
Example

2.

**quarter turn****half turn****three-quarter turn****clockwise****anticlockwise**

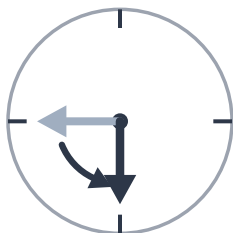
How many right angles? _____

3.

**quarter turn****half turn****three-quarter turn****clockwise****anticlockwise**

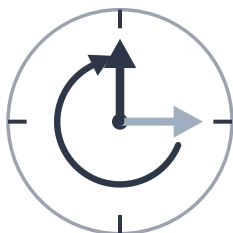
How many right angles? _____

4.

**quarter turn****half turn****three-quarter turn****clockwise****anticlockwise**

How many right angles? _____

5.

**quarter turn****half turn****three-quarter turn****clockwise****anticlockwise**

How many right angles? _____

Turns and Right Angles

The ladybird turns on the spot. What does it face now?



tree



apple



house



car

The ladybird faces the tree.

Start from the tree each time.

1. A quarter turn clockwise.

It faces the house

Example

2. A half turn clockwise.

It faces the _____

3. A quarter turn anticlockwise.

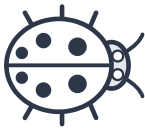
It faces the _____



sun



duck



ball



teddy

The ladybird faces the ball.

Start from the ball each time.

4. A three-quarter turn clockwise.

It faces the _____

5. A half turn anticlockwise.

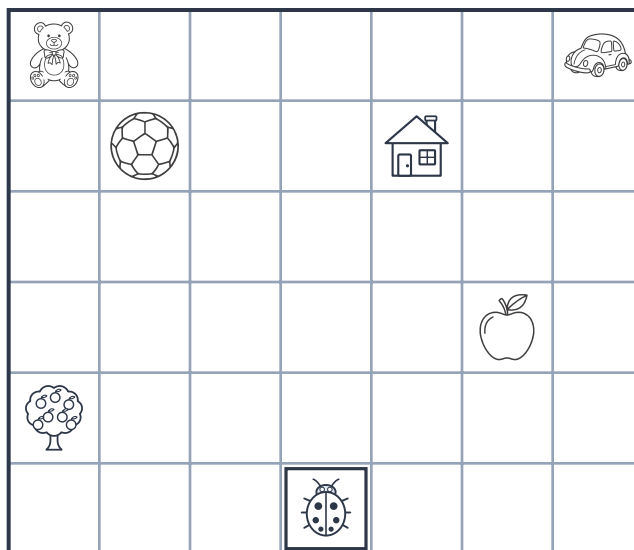
It faces the _____

6. A quarter turn clockwise.

It faces the _____

Turns and Right Angles

Follow each route from the start. Which picture does it reach?



Start

The ladybird starts on the Start square, facing up.

A quarter turn clockwise is a turn to the right.

1. Forward 2, quarter turn clockwise,
forward 2.

It reaches the Example apple

2. Forward 1, quarter turn anticlockwise,
forward 3.

It reaches the _____

3. Forward 4, quarter turn clockwise,
forward 1.

It reaches the _____

4. Forward 3, quarter turn anticlockwise,
forward 2, quarter turn clockwise,
forward 1.

It reaches the _____

Turns and Right Angles

Circle the picture after the turn. Then circle the matching turn.

1.



**Quarter turn
clockwise**

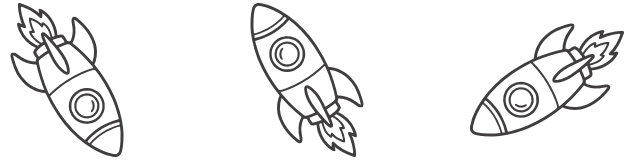
Example



2.



**Half turn
anticlockwise**



3.



**Quarter turn
anticlockwise**



4.



**Three-quarter turn
clockwise**



Turns that end the same way

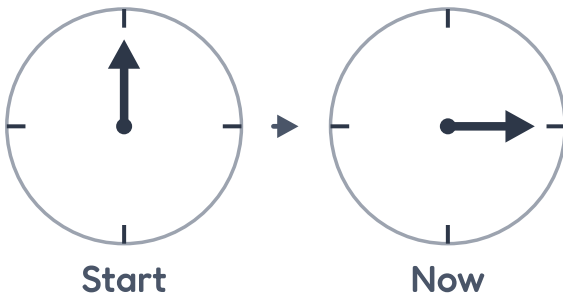
5. A three-quarter turn clockwise ends the same way as a
quarter half three-quarter turn anticlockwise.
6. A quarter turn anticlockwise ends the same way as a
quarter half three-quarter turn clockwise.
7. A half turn clockwise ends the same way as a
quarter half three-quarter turn anticlockwise.

Turns and Right Angles

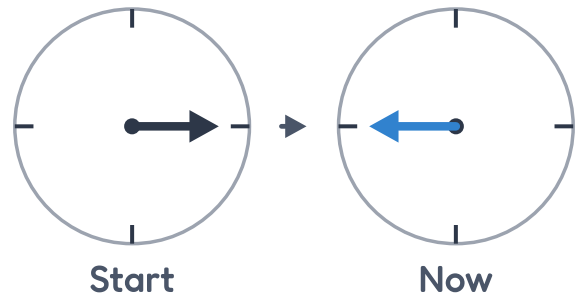
Read the turn. Draw where the arrow points now.

1. Quarter turn
clockwise ↻

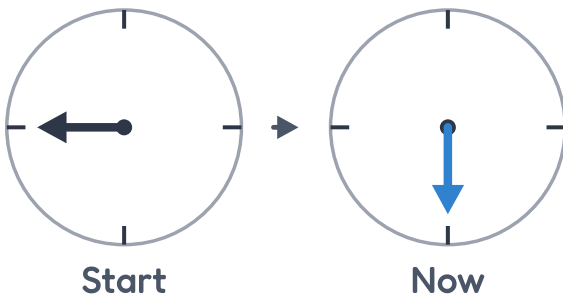
Example



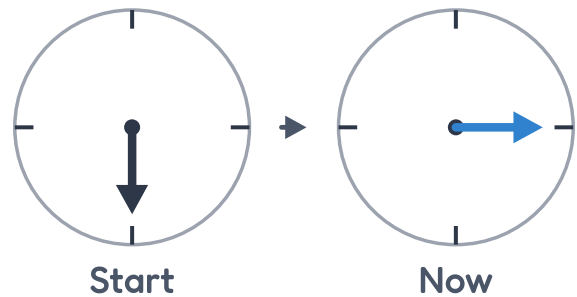
2. Half turn
anticlockwise ↺



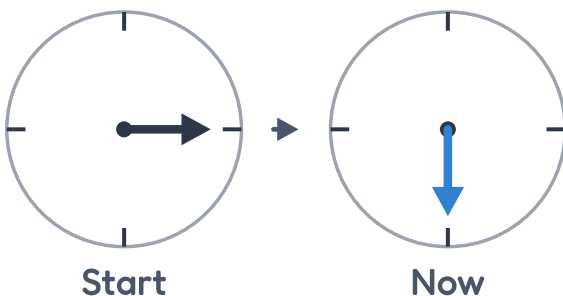
3. Quarter turn
anticlockwise ↺



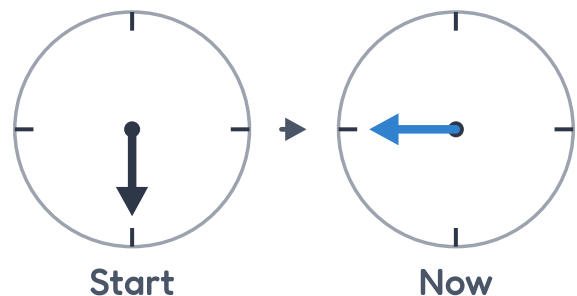
4. Three-quarter turn
clockwise ↻



5. Three-quarter turn
anticlockwise ↺



6. Quarter turn
clockwise ↻



Turns and Right Angles

The grey arrow turns to the black arrow. Circle the turn.

1.

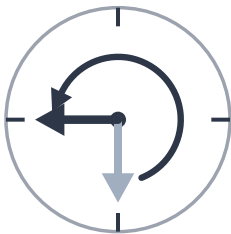


quarter turn half turn three-quarter turn
clockwise anticlockwise

How many right angles? 1

Example

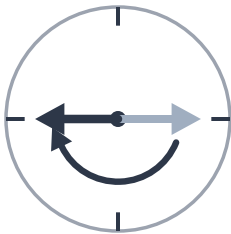
2.



quarter turn half turn **three-quarter turn**
 clockwise **anticlockwise**

How many right angles? 3

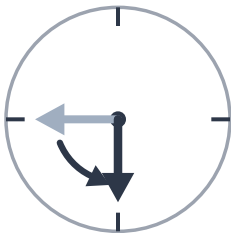
3.



quarter turn **half turn** three-quarter turn
clockwise anticlockwise

How many right angles? 2

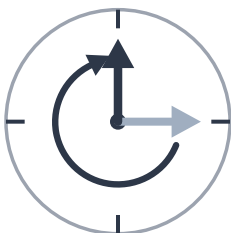
4.



quarter turn half turn three-quarter turn
 clockwise **anticlockwise**

How many right angles? 1

5.



quarter turn half turn **three-quarter turn**
clockwise anticlockwise

How many right angles? 3

Turns and Right Angles

The ladybird turns on the spot. What does it face now?



tree



apple



house



car

The ladybird faces the tree.

Start from the tree each time.

1. A quarter turn clockwise.

It faces the house Example

2. A half turn clockwise.

It faces the car

3. A quarter turn anticlockwise.

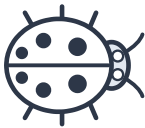
It faces the apple



sun



duck



ball



teddy

The ladybird faces the ball.

Start from the ball each time.

4. A three-quarter turn clockwise.

It faces the sun

5. A half turn anticlockwise.

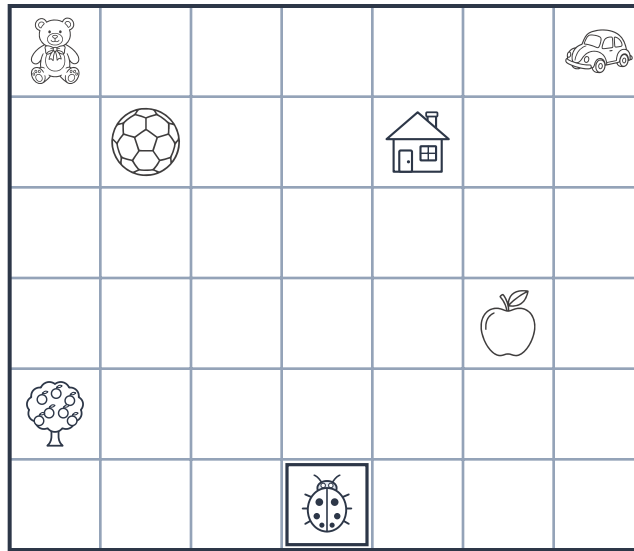
It faces the duck

6. A quarter turn clockwise.

It faces the teddy

Turns and Right Angles

Follow each route from the start. Which picture does it reach?



Start

The ladybird starts on the Start square, facing up.

A quarter turn clockwise is a turn to the right.

1. Forward 2, quarter turn clockwise,
forward 2.

It reaches the Example apple

2. Forward 1, quarter turn anticlockwise,
forward 3.

It reaches the tree

3. Forward 4, quarter turn clockwise,
forward 1.

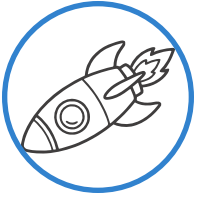
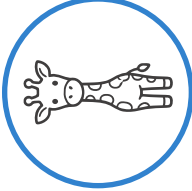
It reaches the house

4. Forward 3, quarter turn anticlockwise,
forward 2, quarter turn clockwise,
forward 1.

It reaches the ball

Turns and Right Angles

Circle the picture after the turn. Then circle the matching turn.

1.		Quarter turn clockwise			
		Example			
2.		Half turn anticlockwise			
3.		Quarter turn anticlockwise			
4.		Three-quarter turn clockwise			

Turns that end the same way

- A three-quarter turn clockwise ends the same way as a **quarter** half three-quarter turn anticlockwise.
- A quarter turn anticlockwise ends the same way as a quarter half **three-quarter** turn clockwise.
- A half turn clockwise ends the same way as a quarter **half** three-quarter turn anticlockwise.