

# Position and Direction

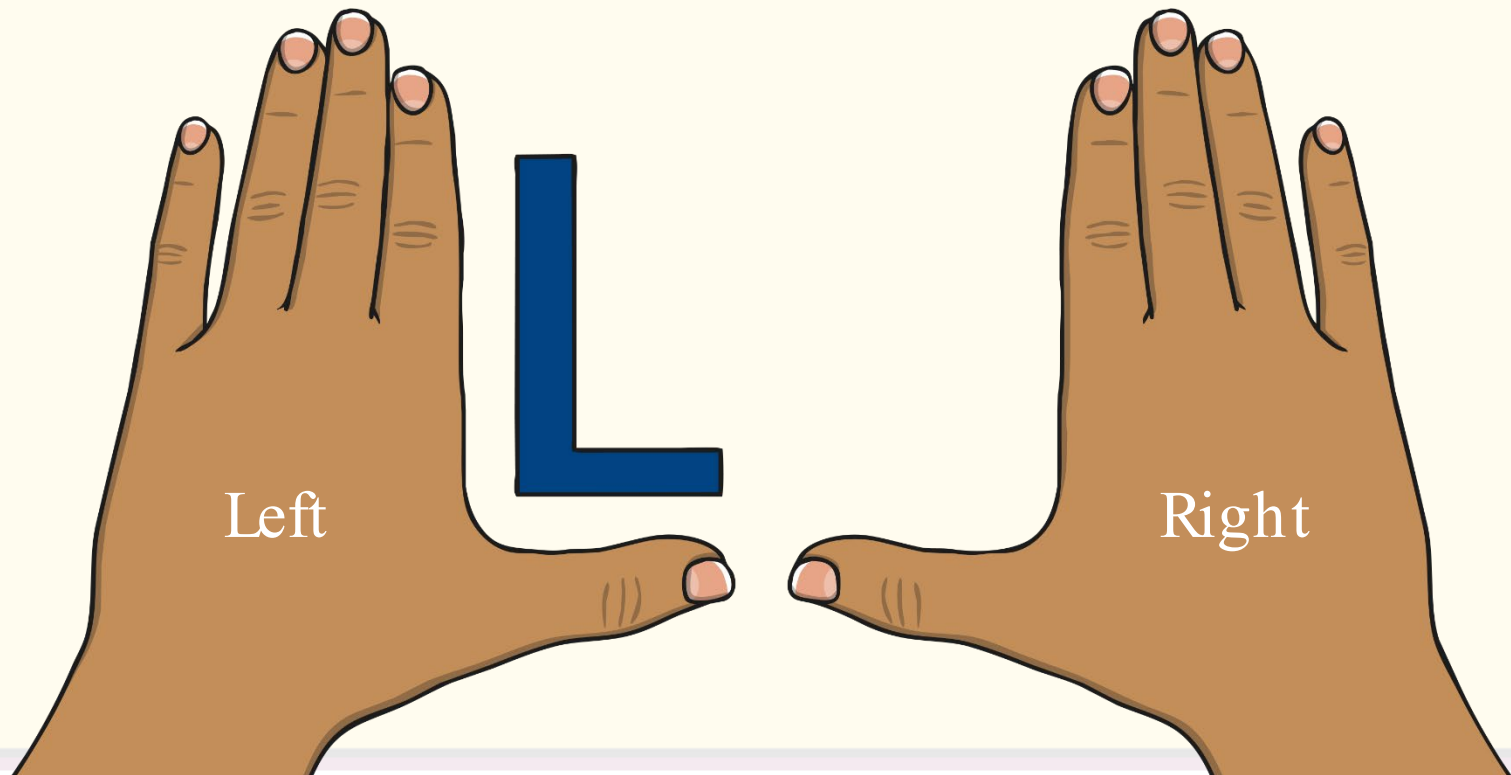
Warm-Up



What?  
When?  
Where?  
Why?  
How?

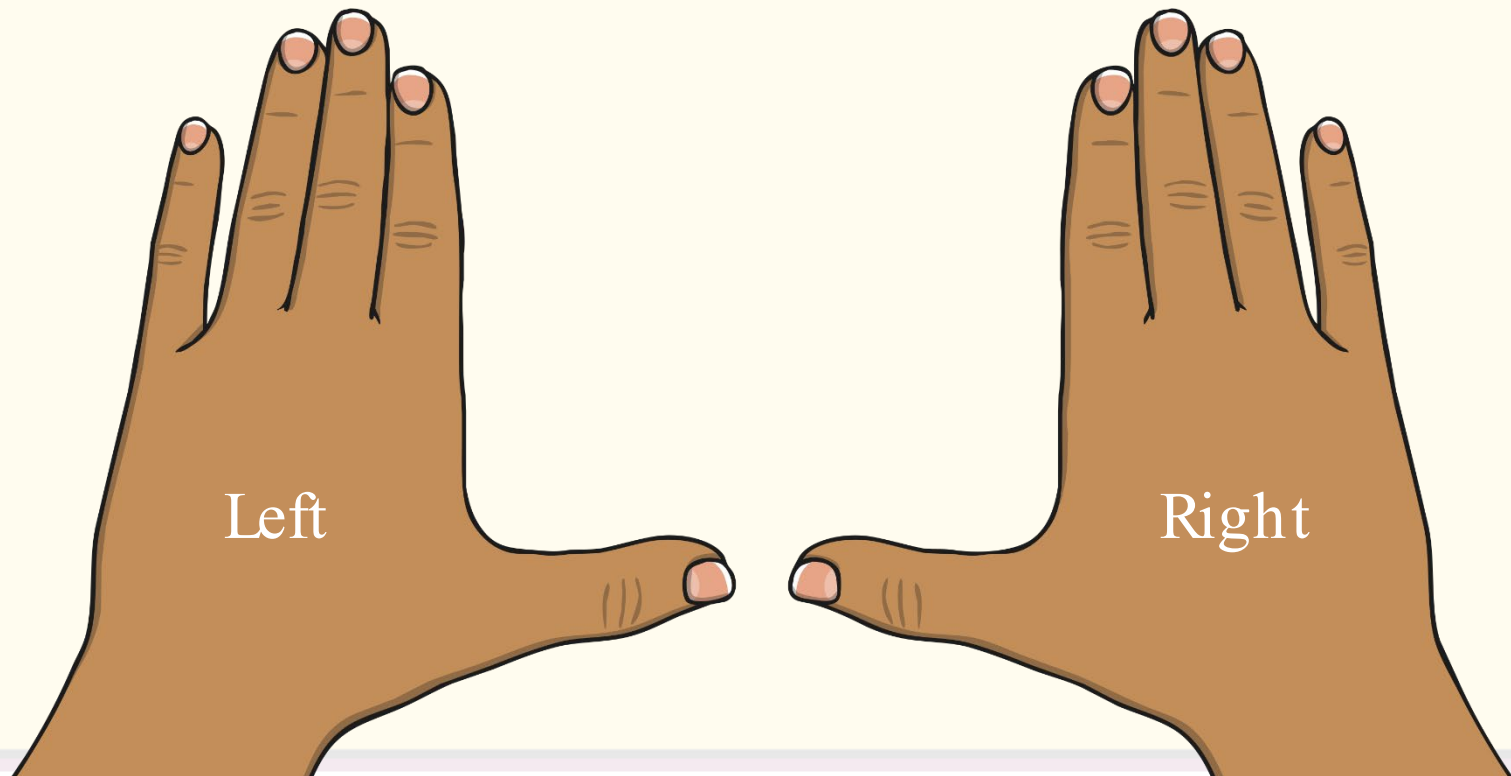
# Put your left hand in the air!

The hand that makes an 'L' shape is your left hand.



# Put your right hand in the air!

The hand that does not make an 'L' shape is your right hand.



# Making turns - clockwise

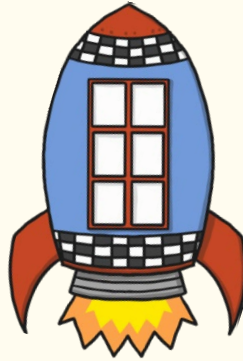


We call this one whole turn or a full turn.

If the frog turns to the **right** , it is turning **clockwise**.

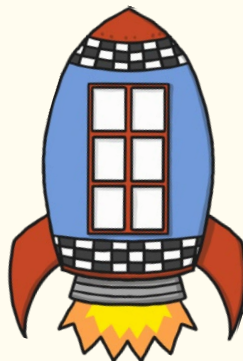


# Making turns – anti-clockwise



Anti means the  
opposite of.

If the rocket turns to the **left**, it is turning **anti -clockwise**.



# Making turns – a quarter turn clockwise



A quarter means  
there are 4  
equal parts.

The kite might turn part of the whole turn.  
The kite will turn **a quarter** of the whole turn **clockwise**.



# Making turns – a quarter turn anti-clockwise



The bear turns 1 of  
the 4 equal parts.

The bear might turn part of the whole turn.  
The bear will turn **a quarter** of the whole turn **anti-clockwise**.



# Making turns – a half turn clockwise



A half means there  
are 2 equal parts.

The owl might turn part of the whole turn.  
The owl will turn **half** of the whole turn **clockwise**.





# Making turns – a half turn anti-clockwise

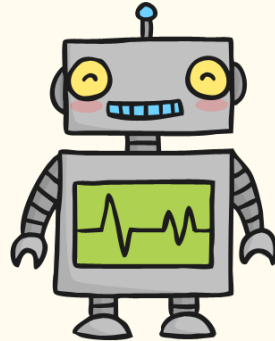


Remember, turning left  
is anti-clockwise.  
Turning right  
is clockwise

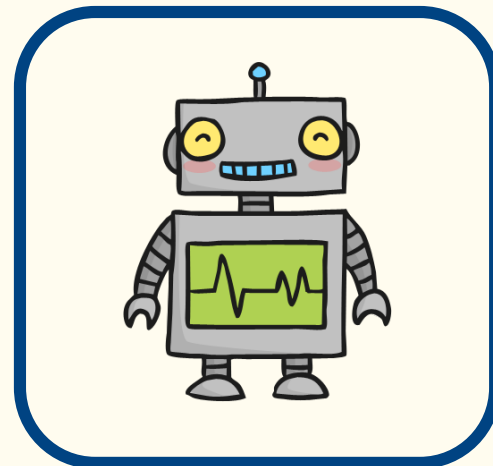
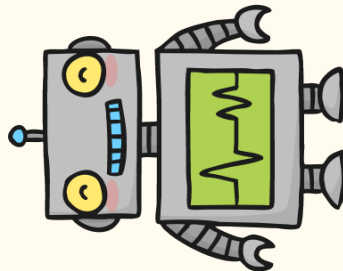
The bike might turn part of the whole turn.  
The bike will turn **half** of the whole turn **anti-clockwise**.



Here is a robot.



The robot has rotated 1 whole turn anticlockwise.  
Which picture shows the robot now?

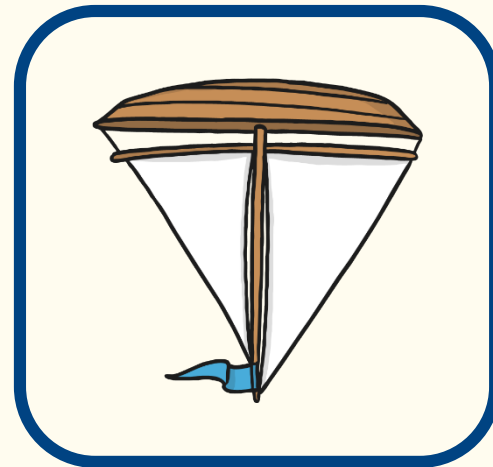


answer

Here is a toy boat.

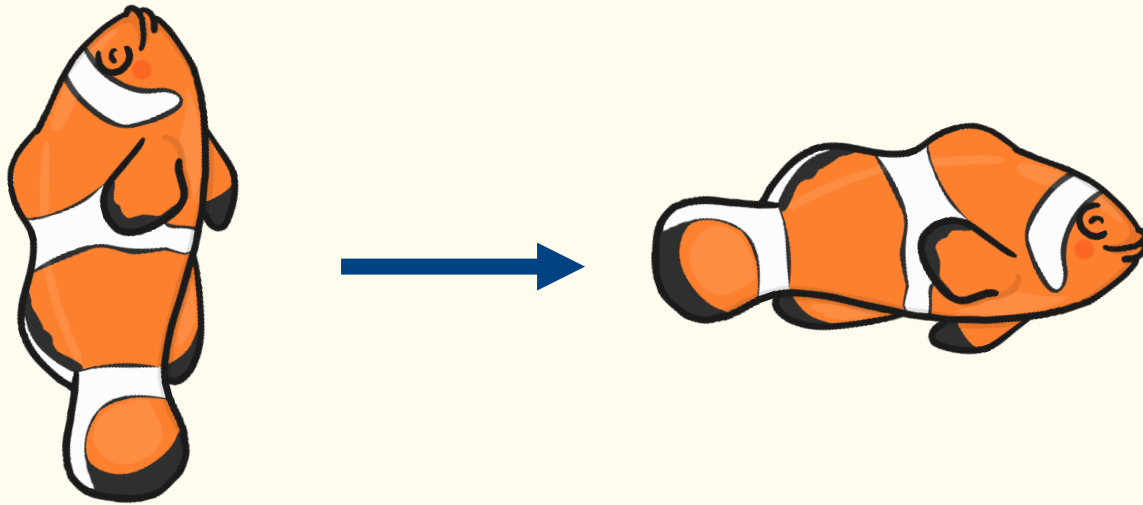


The boat has rotated a half turn clockwise.  
Which picture shows the boat now?



answer

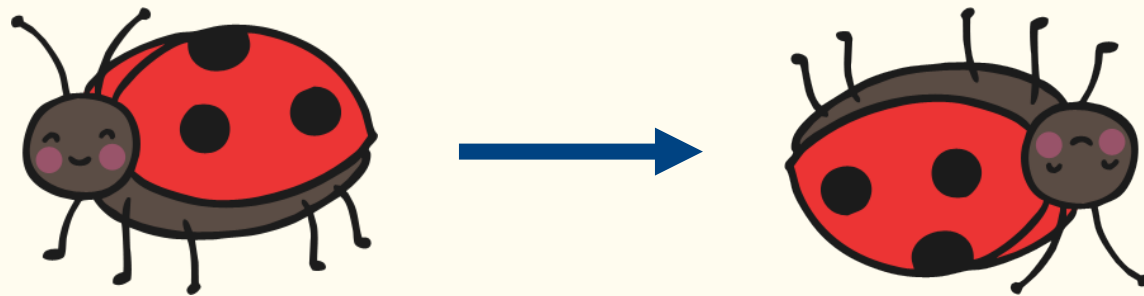
How far has the fish rotated?



answer

one quarter turn clockwise

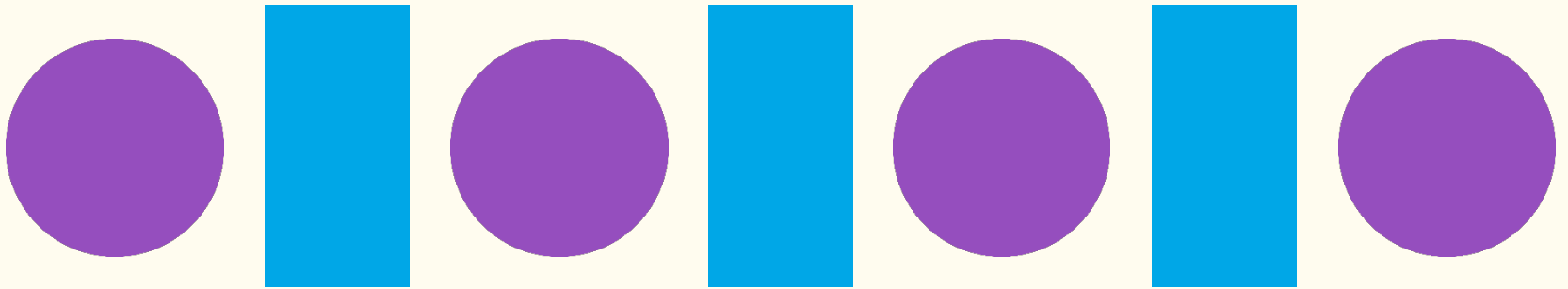
How far has the ladybird rotated?



one half turn anticlockwise  
or  
one half turn clockwise

answer

Draw the next three shapes in the sequence.



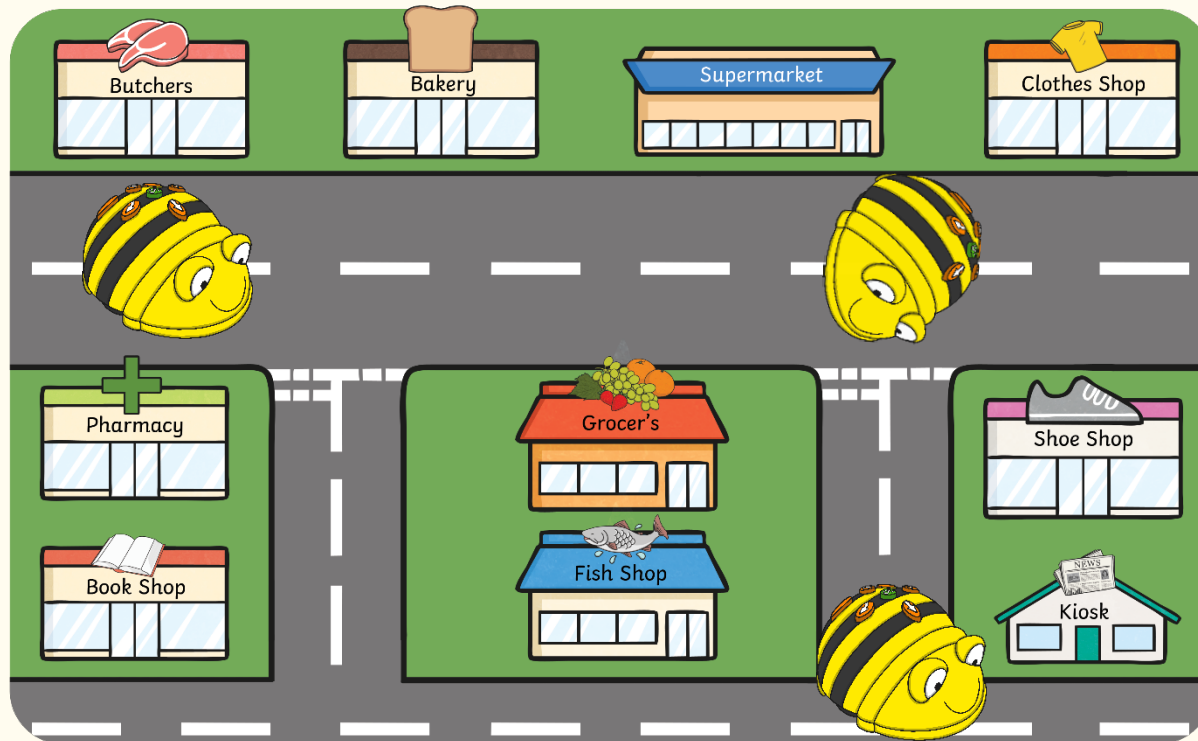
answer

Draw the next three shapes in the sequence.



answer

Bee-Bot wants to buy a newspaper  
How should he get to the Kiosk?

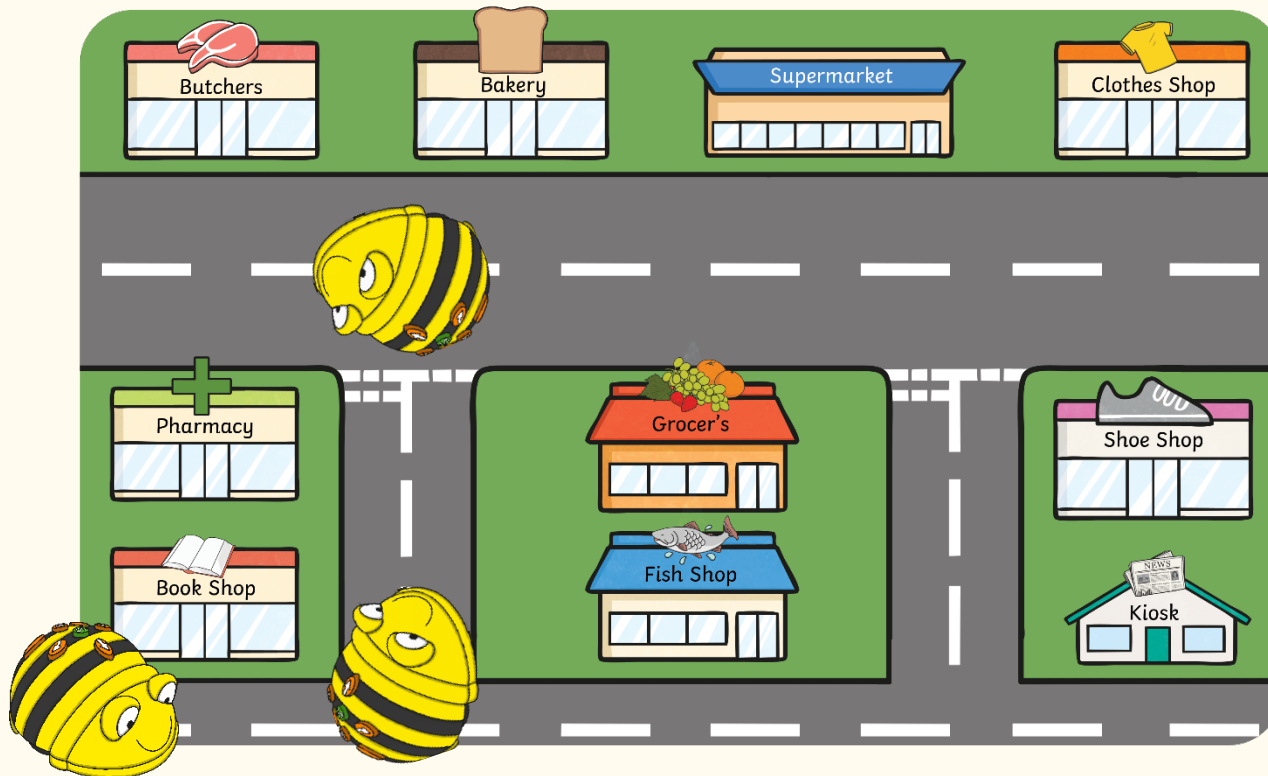


answer

Go straight ahead, then turn right. Go straight ahead again, then turn left. Continue straight ahead. The Kiosk is on your left.



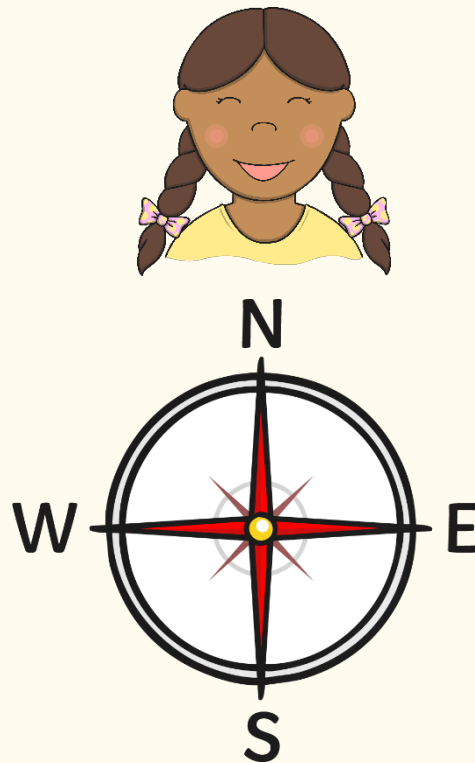
Bee-Bot wants to buy some meat.  
How should he get to the Butcher's?



answer

Go straight ahead, then turn left. Go straight ahead again, then turn left. Continue straight ahead. The Butcher's is on your right.

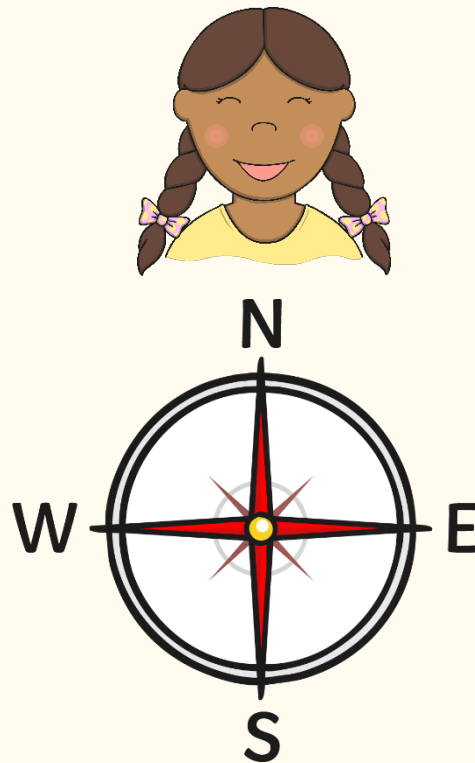
Selma was facing North.  
She did a three-quarter turn in a clockwise direction.  
Which way is she facing now?



answer

Selma is facing West.

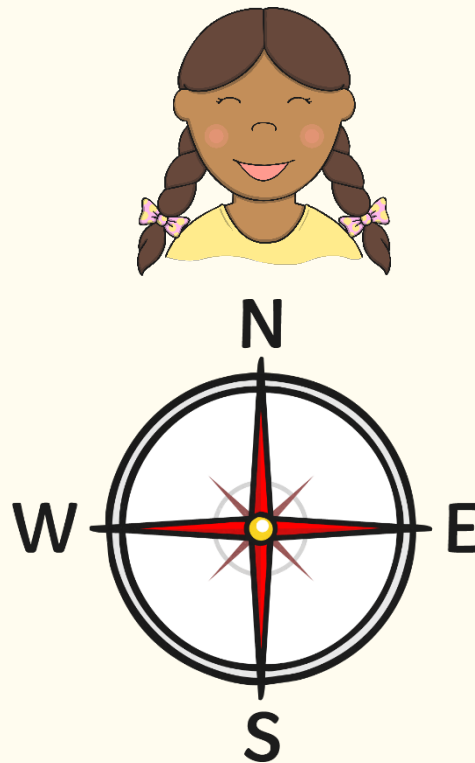
Selma was facing North.  
She turned 90 degrees clockwise.  
Which way is she facing now?



answer

Selma is facing East.

Selma was facing North.  
She turned 90 degrees anticlockwise.  
Which way is she facing now?



answer

Selma is facing West.



twinkl