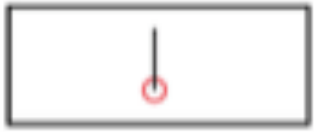
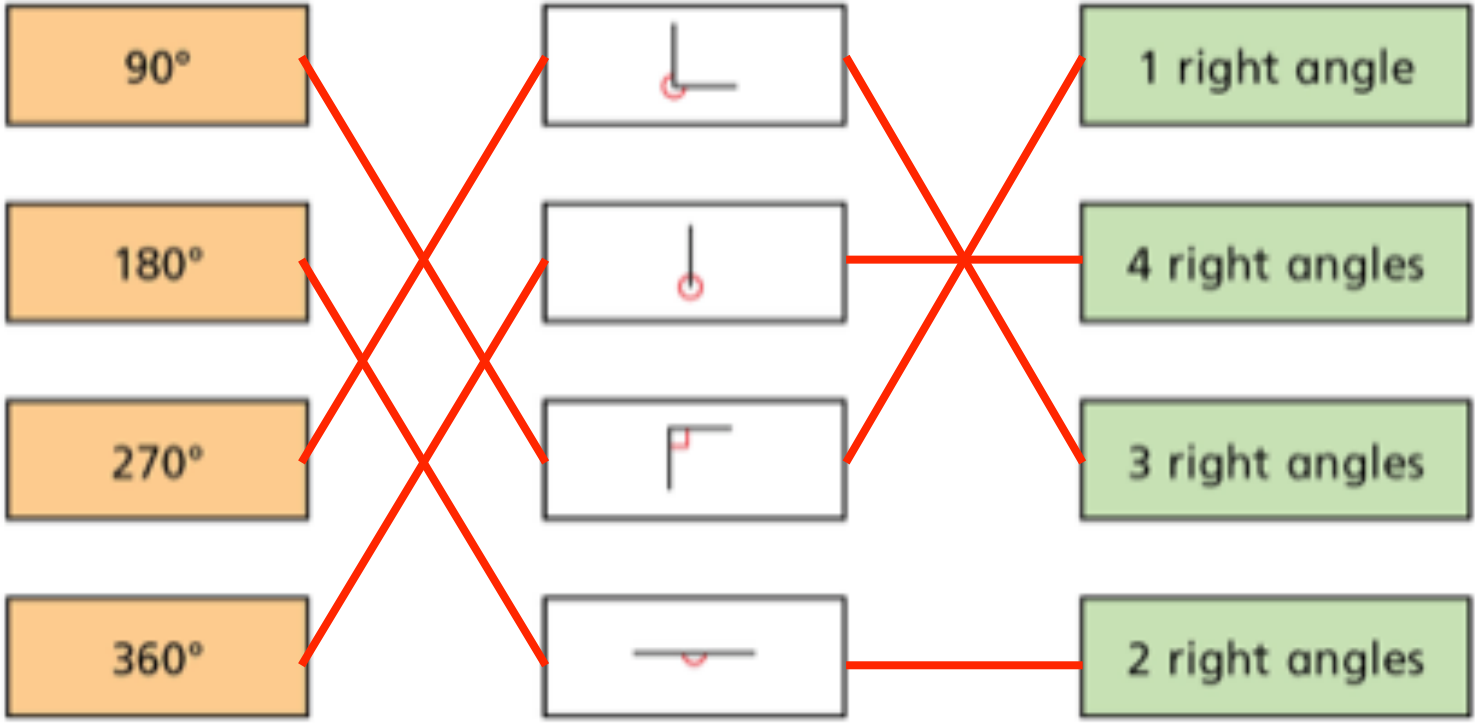
RECALL

Match each angle to its picture and number of right angles.

90°		1 right angle
180°		4 right angles
270°		3 right angles
360°		2 right angles

RECALL ANSWERS

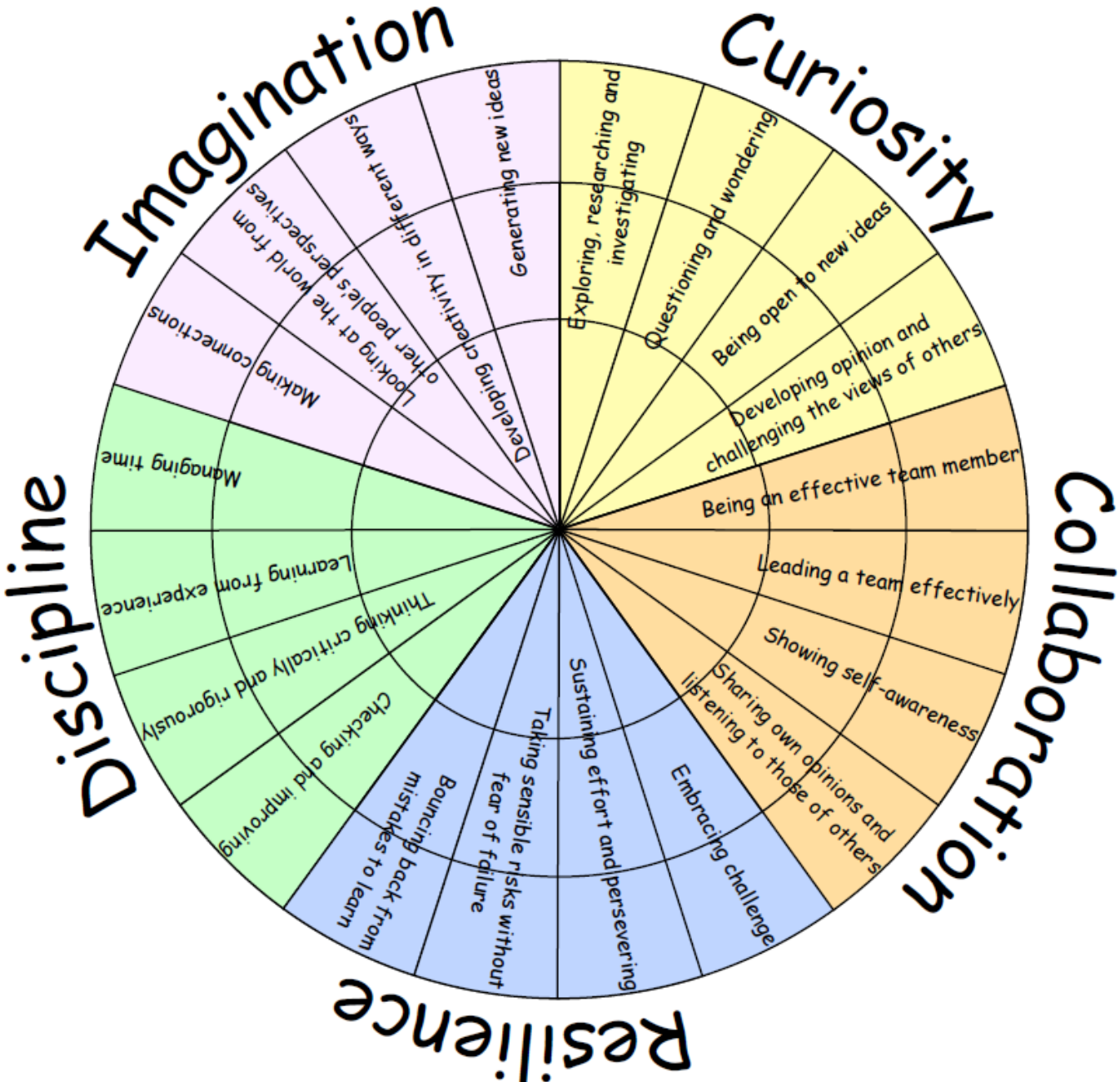
Match each angle to its picture and number of right angles.



I CAN RELATE TURNS TO ANGLES

SHAPE

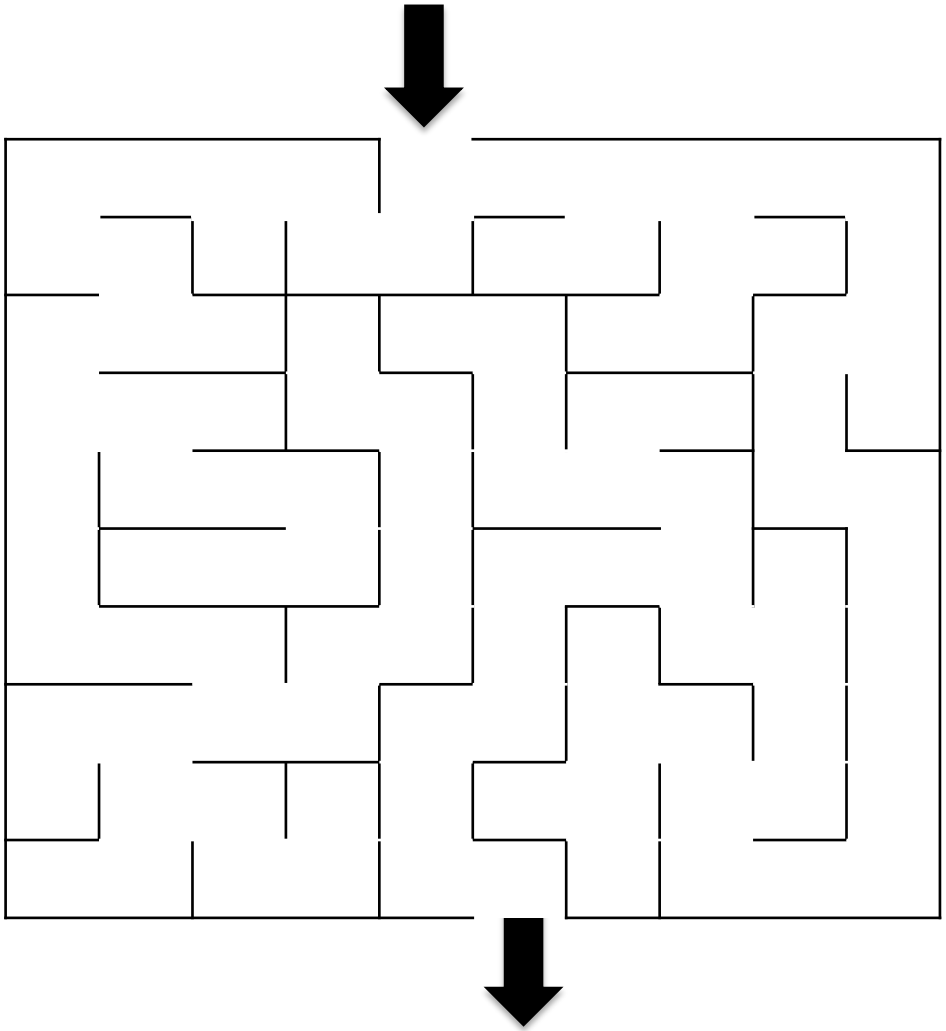
LEARNING HABITS?



GUIDED PRACTICE

Describe the route through this maze using turns and angles.

For example: Go forward 1 square, turn a quarter turn to the left, …

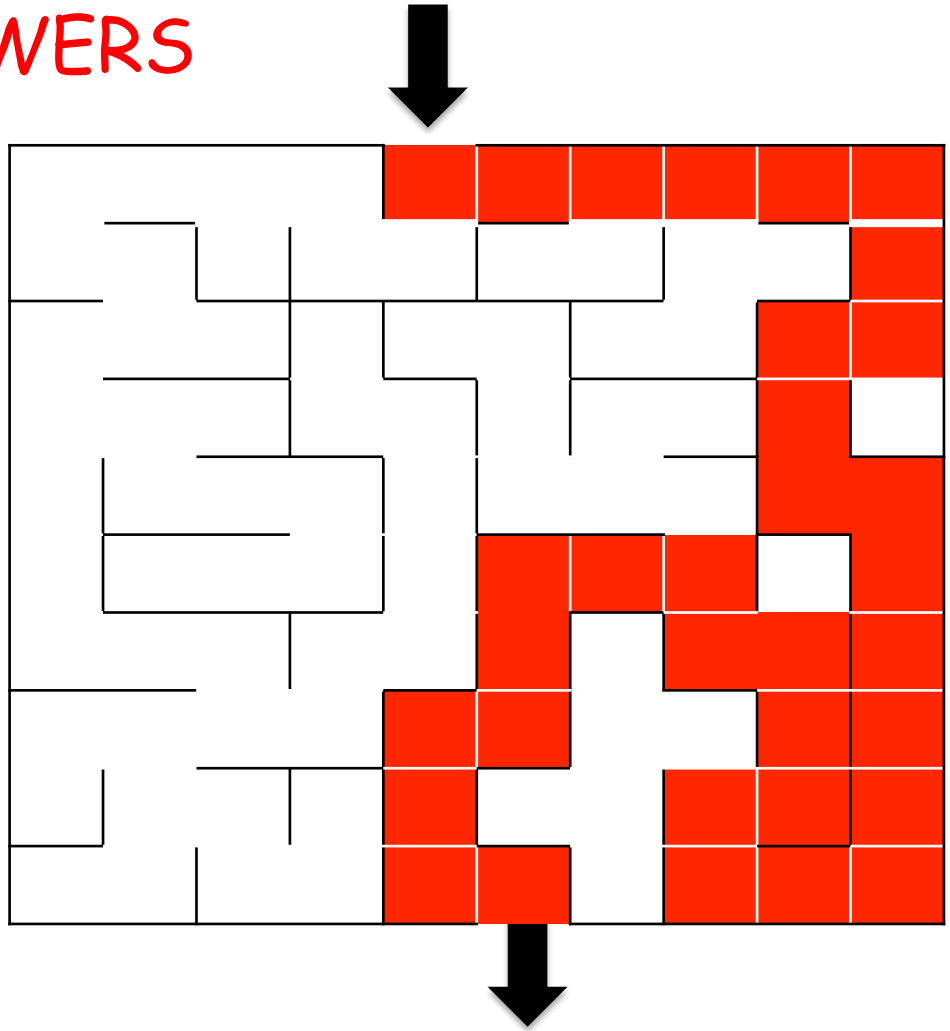


Draw your route through the map first to make it easier

GUIDED PRACTICE ANSWERS

Describe the route through this maze using turns and angles.

For example: Go forward 1 square, turn a quarter turn to the left, …



Draw your route through the map first to make it easier

INTELLIGENT PRACTICE

There is _____ right angle in a quarter turn.

There are _____ right angles in a half turn.

There are _____ right angles in a three-quarter turn.

There are _____ right angles in a whole turn.

A quarter turn is _____ degrees.

A half turn is _____ degrees.

A three-quarter turn is _____ degrees.

A full turn is _____ degrees.

Two full turns is _____ degrees.

One and half turns is _____ degrees.

One and quarter turns is _____ degrees.

A eighth of a turn is _____ degrees.

Jack is facing the direction that the arrow is pointing.
He turns a three-quarter turn.

Draw a diagram to show the two directions he could now be facing and the angles he could have turned through.
How many degrees did he turn?

INTELLIGENT PRACTICE ANSWERS

There is 1 right angle in a quarter turn.

There are 2 right angles in a half turn.

There are 3 right angles in a three-quarter turn.

There are 4 right angles in a whole turn.

A quarter turn is 90 degrees.

A half turn is 180 degrees.

A three-quarter turn is 270 degrees.

A full turn is 360 degrees.

Two full turns is 720 degrees.

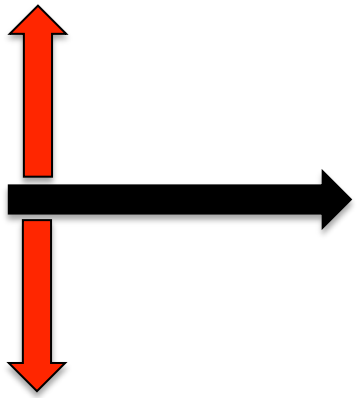
One and half turns is 540 degrees.

One and quarter turns is 450 degrees.

A eighth of a turn is 45 degrees.

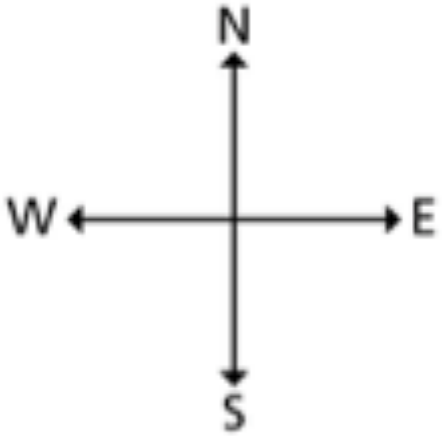
Jack is facing the direction that the arrow is pointing.
He turns a three-quarter turn.

How many degrees did he turn? 270 degrees



DIVE DEEPER

1. Here is a compass.



a) Huan is facing north.
He turns half a turn.
What direction is he facing now?

b) Whitney is facing east.
She turns 180°.
What direction is she facing now?

c) Alex is facing west.
She turns a quarter turn clockwise.
What direction is she facing now?

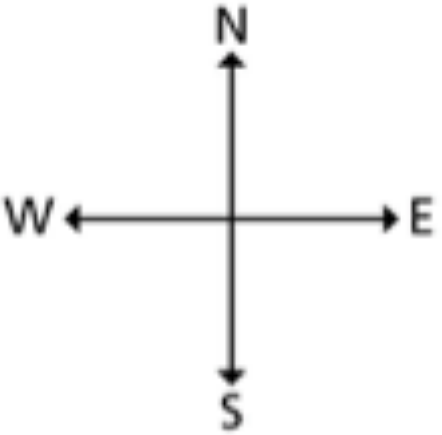
d) Amir is facing west.
He turns 90°.
What direction is he facing now?

e) Kim is facing south.
What angles does she need to turn through to face east?

Is there more than one answer?

DIVE DEEPER ANSWERS

1. Here is a compass.



a) Huan is facing north.
He turns half a turn.
What direction is he facing now? South

b) Whitney is facing east.
She turns 180°.
What direction is she facing now? West

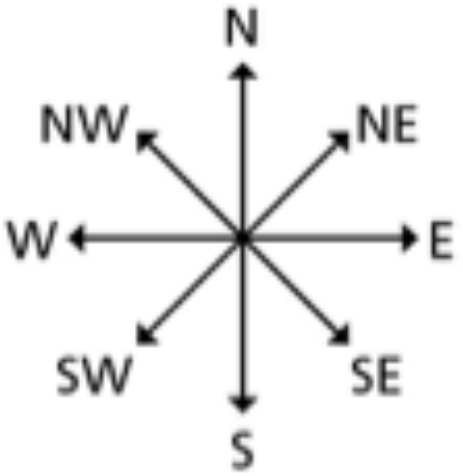
c) Alex is facing west.
She turns a quarter turn clockwise.
What direction is she facing now? North

d) Amir is facing west.
He turns 90°.
What direction is he facing now? North or South

e) Kim is facing south.
What angles does she need to turn through to face east? 90 degrees anti-clockwise or 270 degrees clockwise

DIVE DEEPER 2

2. Here is another compass.



a) Dexter is facing north-east.
He turns half a turn.
What direction is he facing now?

b) Esther is facing south-west.
She turns 270°.
What direction is she facing now?

c) Mo is facing south-west.
He turns, and he is still facing south-west.
How many degrees did he turn through?

3. Complete these statements.

a) $\frac{1}{2}$ of a full turn = ☐

b) $\frac{1}{4}$ of a full turn = ☐

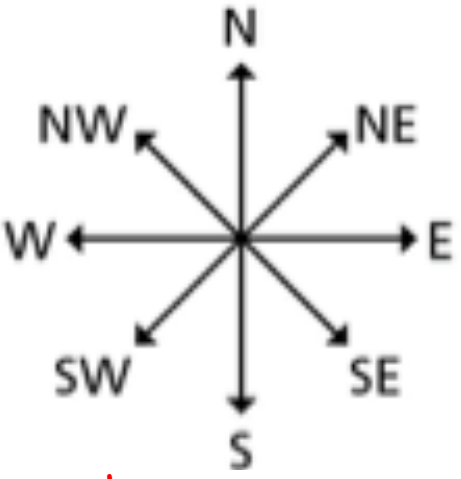
c) $\frac{3}{4}$ of a full turn = ☐

d) $1\frac{1}{4}$ turns = ☐

e) $5\frac{3}{4}$ turns = ☐

DIVE DEEPER 2 ANSWERS

2. Here is another compass.



a) Dexter is facing north-east.
He turns half a turn.
What direction is he facing now? South-west

b) Esther is facing south-west.
She turns 270°.
What direction is she facing now? North-west or South-east

c) Mo is facing south-west.
He turns, and he is still facing south-west.
How many degrees did he turn through? 360 degrees

3. Complete these statements.

a) $\frac{1}{2}$ of a full turn = 180°

b) $\frac{1}{4}$ of a full turn = 90°

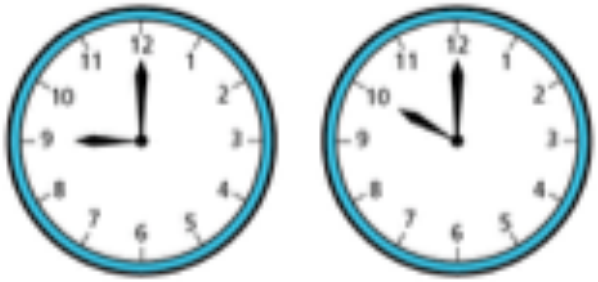
c) $\frac{3}{4}$ of a full turn = 270°

d) $1\frac{1}{4}$ turns = 450°

e) $5\frac{3}{4}$ turns = 2070°

DIVE DEEPER 3

4. Nijah looks at the clock at the start and at the end of her maths lesson.



How many degrees did the minute hand turn through during the lesson?

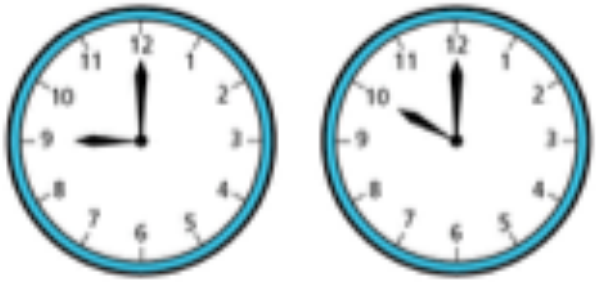
5.

How many degrees did Eva turn through?

Prove how you know that you are correct.

DIVE DEEPER 3 ANSWERS

4. Nijah looks at the clock at the start and at the end of her maths lesson.



How many degrees did the minute hand turn through during the lesson? 360°

5.

How many degrees did Eva turn through? 840°

Prove how you know that you are correct.

SELF-ASSESSMENT

- Some will even describe turn when they are not using 90° increments.
- Some will be able to describe turns using cardinal positions
- Most will be able to link a turn with angles
- All will be able to describe a turn using amount of right angles