

Understand angles as a measure of turn

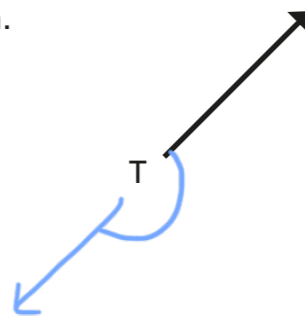
- 1 Whitney is facing in the direction of the arrow.
She turns through half a turn.



Show the direction that Whitney is now facing.



- 2 Teddy is facing in the direction of the arrow.
He turns through half a turn.

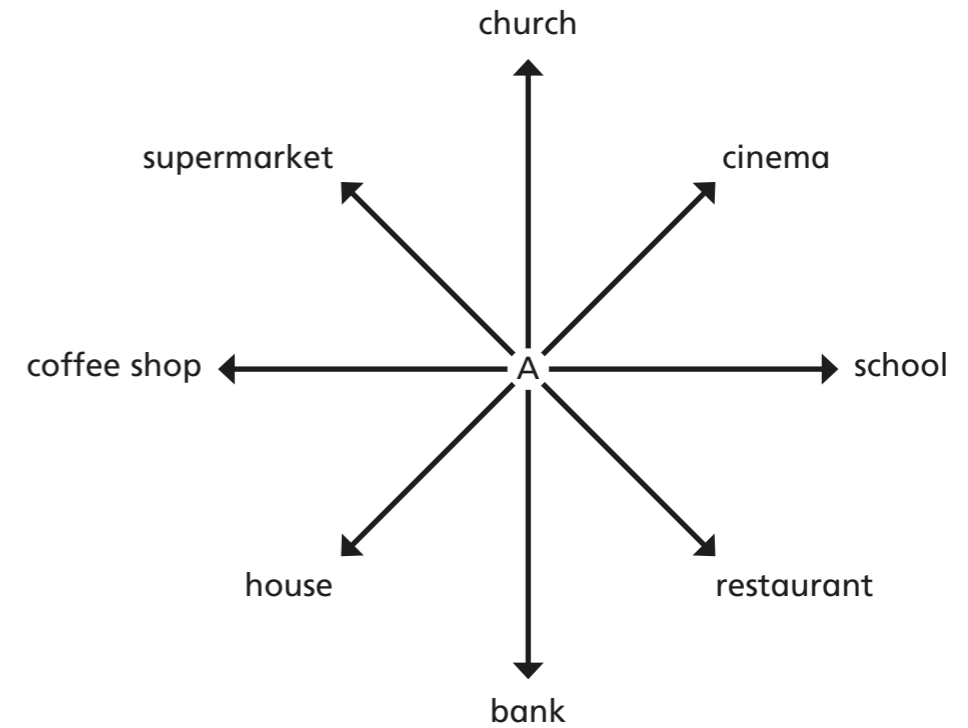


- a) Show the direction that Teddy is now facing.
b) Mark the angle that Teddy has turned through.
c) What angle has Teddy turned through?

180°



- 3 The diagram shows a compass and the direction of some places.
Kim, Jack, Annie and Mo are all standing at point A.



- a) Kim is facing the church.
She turns through a quarter of a turn clockwise.
Which place is she now facing?
- b) Jack is facing the cinema.
He turns through a quarter of a turn.
Which two places could he be facing?

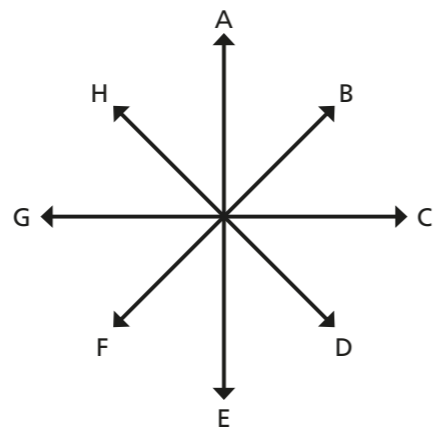
School

restaurant or supermarket

- c) Annie is facing the restaurant.
Complete the sentence.
She makes a half turn and she is facing the supermarket.
- d) Mo is facing the coffee shop.
He makes a three-quarter turn clockwise.
Where is he now facing?

bank

- 4 Amir is facing C.
He turns to face E.



What two possible turns could Amir have made?

Describe each turn.

Quarter turn clockwise.

Three-quarter turn anticlockwise.

- 5 a) Complete the sentences.

1 full turn is equal to °.

2 full turns are equal to °.

3 full turns are equal to °.

$\frac{1}{2}$ of a full turn is equal to °.

$\frac{1}{4}$ of a full turn is equal to °.

$\frac{3}{4}$ of a full turn is equal to °.

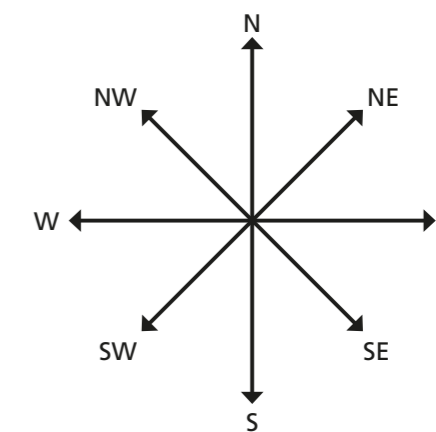
- b) How many degrees are equal to $2\frac{3}{4}$ full turns?

°

- c) How many degrees are equal to $1\frac{1}{3}$ full turns?

°

- 6 The diagram shows compass points.



- a) A ship is heading north.
It turns through 90° clockwise.
Which direction is the ship now facing?

East

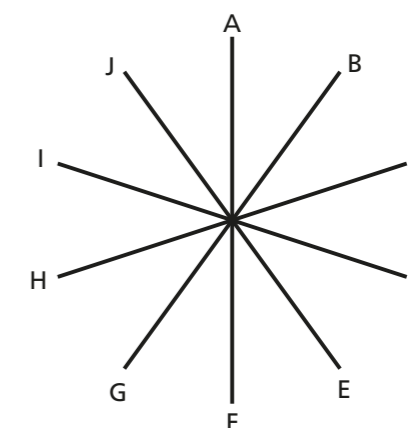
- b) Another ship is heading SE.
It turns through 90° clockwise.
Which direction is this ship now facing?

South West

- c) A final ship is heading NW.
The ship turns anticlockwise to face NE.
How many degrees has the ship turned through?

°

- 7 Filip is facing A.
He makes ten equal-sized turns.



- He finishes facing G.
How many degrees did he turn through to face G?

°

