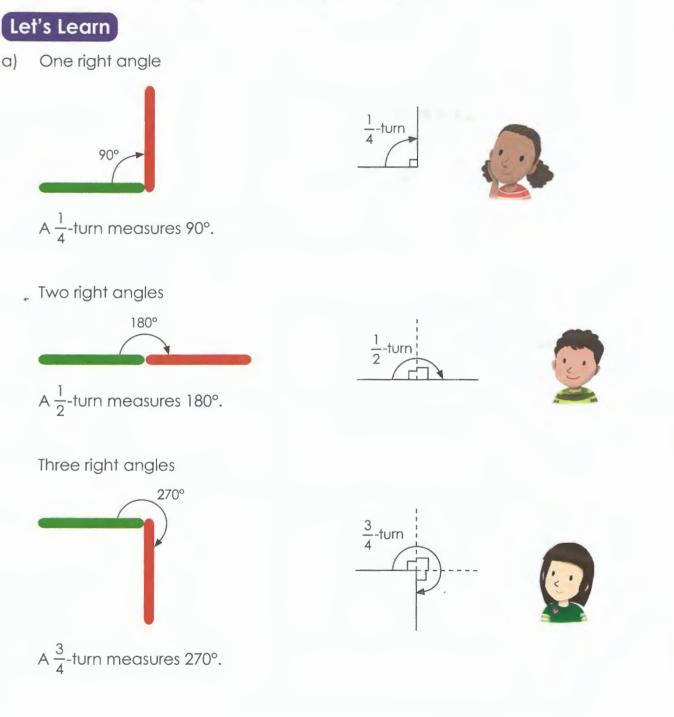
Unit 3: Turns and 8-Point Compass

You will learn to ...

- relate turns to right angles
- tell directions using an 8-point compass

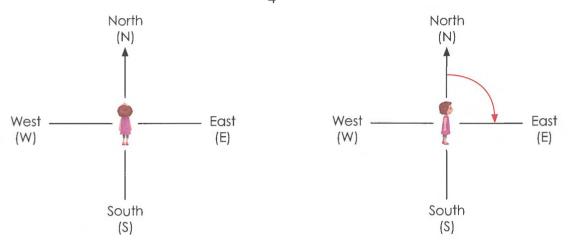
Lesson 1: Relating turns to right angles



Estimate, measure and compare angles using degrees. Construct angles using a protractor (ACMMG112)



b) Jess is facing north. She makes a $\frac{1}{4}$ -turn in the **clockwise** direction.



She now faces east.

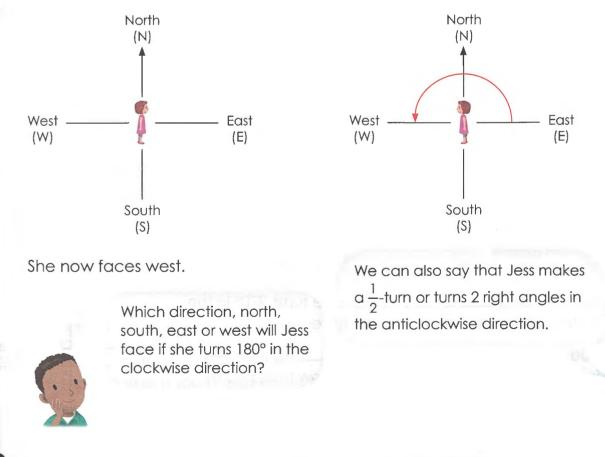
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c) She then turns 180° in the **anticlockwise** direction.

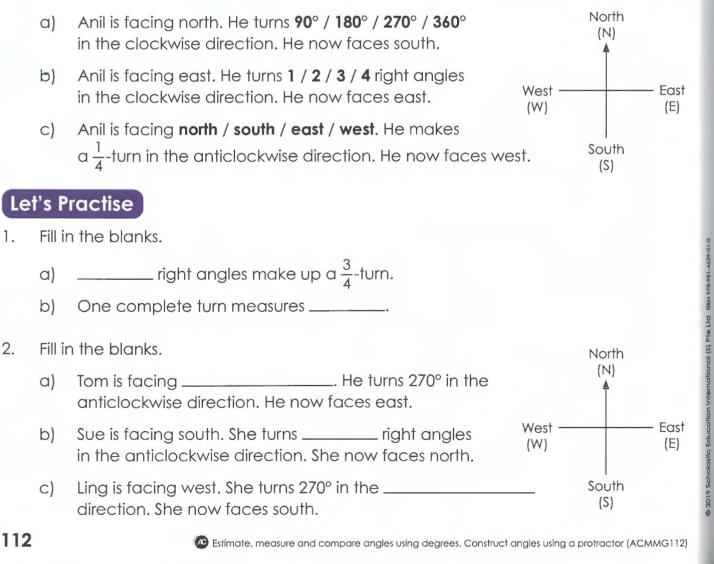


Let's Do

1. Complete the table.

	Turn	Number of right angles	Angle measure
a)	$\frac{3}{4}$		A complete tu b) Jess is tacing n
b)		1	
c)			180°

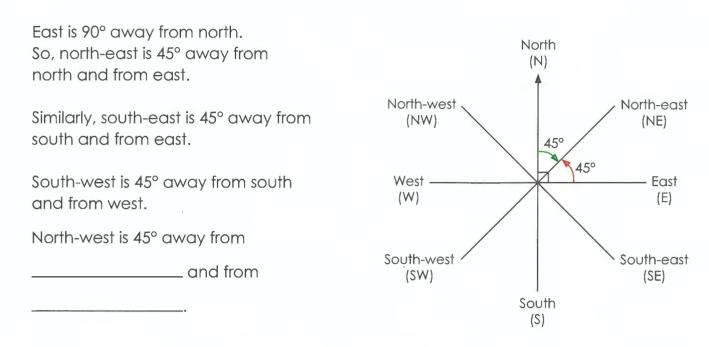
2. Circle the correct answers.



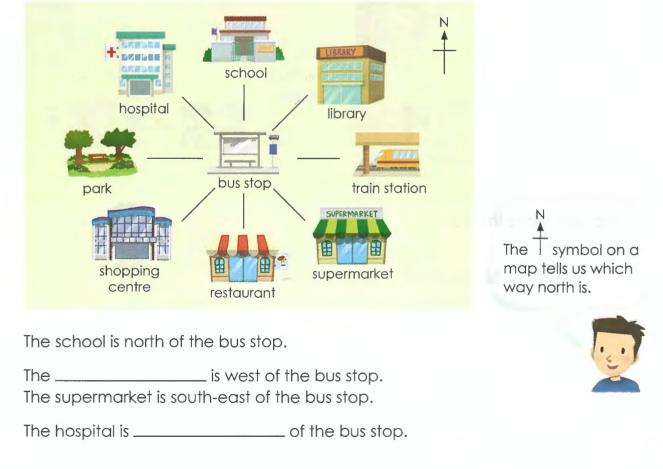
Lesson 2: Telling directions using an 8-point compass

Let's Learn

a) We can tell directions using an **8-point compass**.

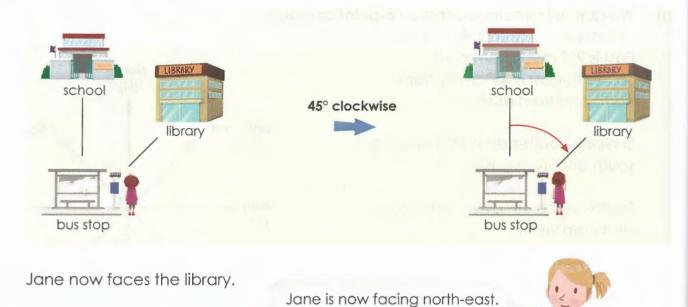


b) This map shows the locations of some places in Jane's town.

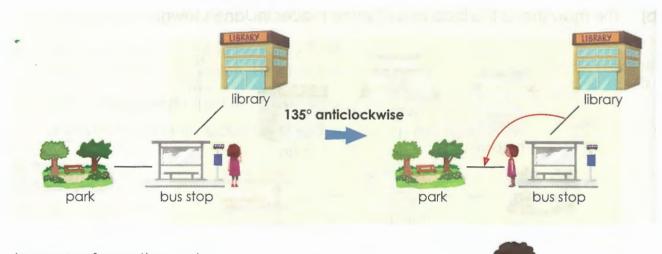


Jane is now standing at the bus stop.

c) Jane is facing north. She turns 45° in the clockwise direction.



d) Jane is facing north-east. She turns 135° in the anticlockwise direction.

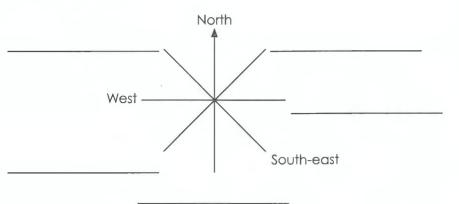


Jane now faces the park.

Jane is now facing west.



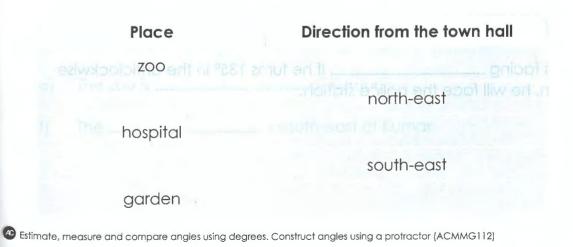
1. Fill in the missing directions.



2. This map shows the locations of some places in a town.



Complete the table below.



3. James is standing in the centre of the city park.

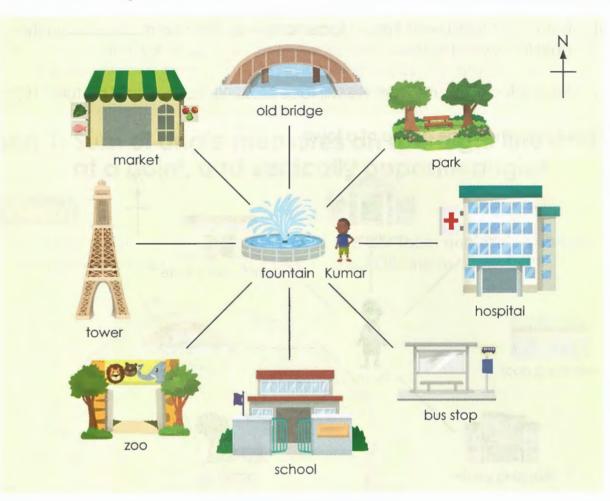


Fill in the blanks.

- a) James is facing west. If he turns 45° in the clockwise direction, he will face the _____.
- b) James is facing east. If he turns 270° in the ______ direction, he will face the bus station.
- c) James is facing north-east. If he turns _____ in the clockwise direction, he will face the community centre.
- d) James is facing ______. If he turns 135° in the anticlockwise direction, he will face the police station.

Let's Practise

1. This map shows the locations of some places in a town. Kumar is standing at the fountain.

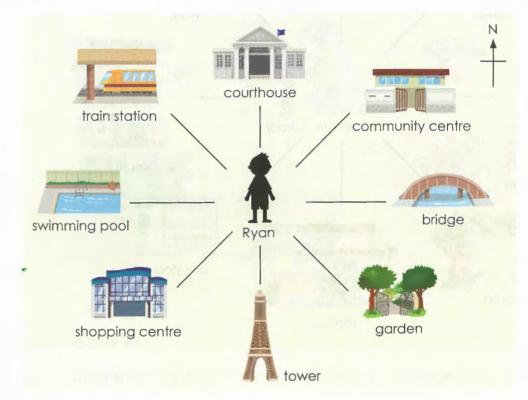


Fill in the blanks.



- b) The ______ is south of Kumar.
- c) The tower is ______ of Kumar.
- d) The ______ is north-east of Kumar.
- e) The zoo is ______ of Kumar.
- f) The ______ is south-east of Kumar.

- 2. Fill in the blanks.
 - a) Kirra is facing north-east. She will face ______ if she turns 135° in the clockwise direction.
 - b) Osman is facing west. He will face north-west if he turns _____ in the anticlockwise direction.
 - c) Ming is facing south-west. He will face ______ if he turns 180°.
- 3. Ryan is standing in the centre of a town.



Complete the table.

Ryan is facing the	lf Ryan turns	Ryan will face the
courthouse	45° clockwise	
bridge	360° clockwise	
garden	anticlockwise	swimming pool
tower	clockwise	swimming pool
	315° anticlockwise	train station
	135° clockwise	garden

Destimate, measure and compare angles using degrees. Construct angles using a protractor (ACMMG112)