POWER MATHS

White Rose MATHS

White Rose Maths Edition

Year 5
Practice Book
5C

Pearson

Series Editor: Tony Staneff

Year 5 Practice Book 5C

White Rose Maths Edition

Draw 3 things that are in your classroom.

What 3D shapes can you find?

This book belongs to _____ .

My class is _____ .

Series editor: Tony Staneff

Lead author: Josh Lury

Consultants (first edition): Professor Liu Jian and Professor Zhang Dan

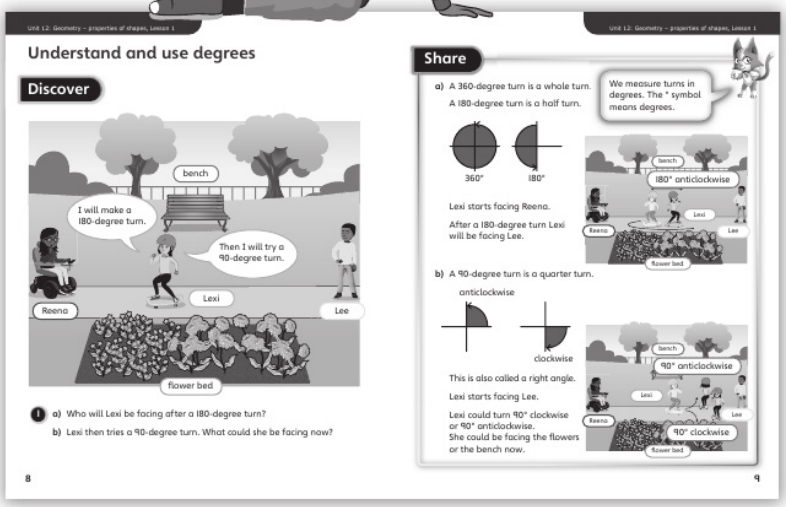
Author team (first edition): Liu Jian, Josh Lury, Catherine Casey, Belle Cottingham, Wei Huinv, Huang Lihua and Paul Wrangles

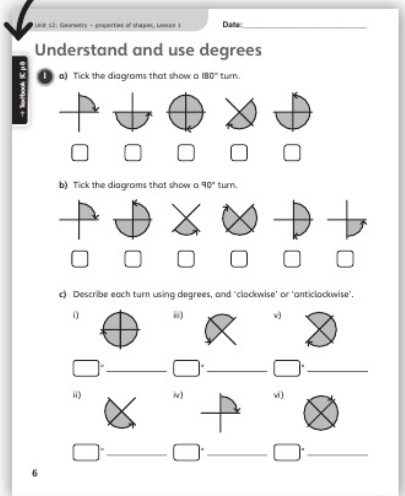
Pearson

Contents

How to use this book

Use the **Textbook** first to learn how to solve this type of problem.





This shows you which **Textbook** page you need.

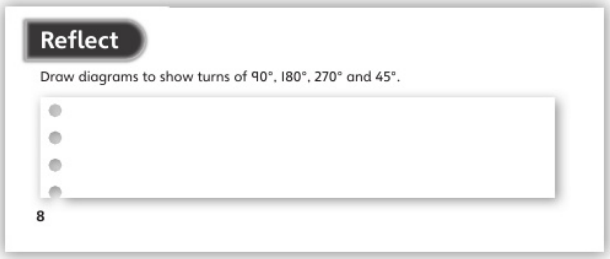
Have a go at questions by yourself using this **Practice Book**. Use what you have learnt.

Challenge questions make you think hard!

Questions with this light bulb make you think differently.

Reflect

Each lesson ends with a **Reflect** question so you can think about what you have learnt.

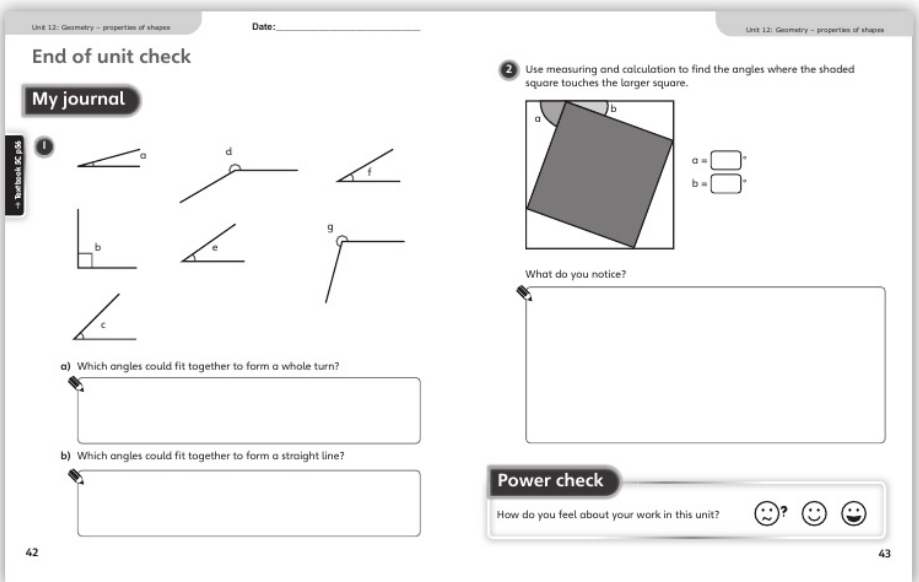


Use **My power points** at the back of this book to keep track of what you have learnt.

My journal

At the end of a unit your teacher will ask you to fill in **My journal**.

This will help you show how much you can do now that you have finished the unit.

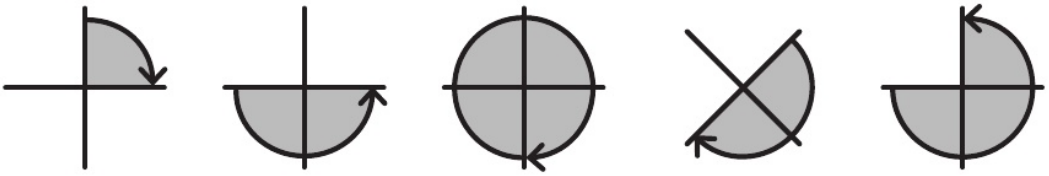


 Date: _____

→ Textbook 5C p8

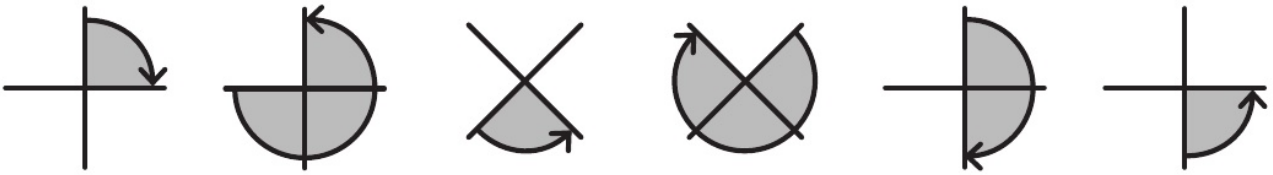
Understand and use degrees

1 **a)** Tick the diagrams that show a 180° turn.



☐ ☐ ☐ ☐ ☐

b) Tick the diagrams that show a 90° turn.



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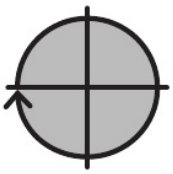
c) Describe each turn using degrees, and 'clockwise' or 'anticlockwise'.

i) 

☐° _____

iii) 

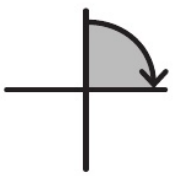
☐° _____

v) 

☐° _____

ii) 

☐° _____

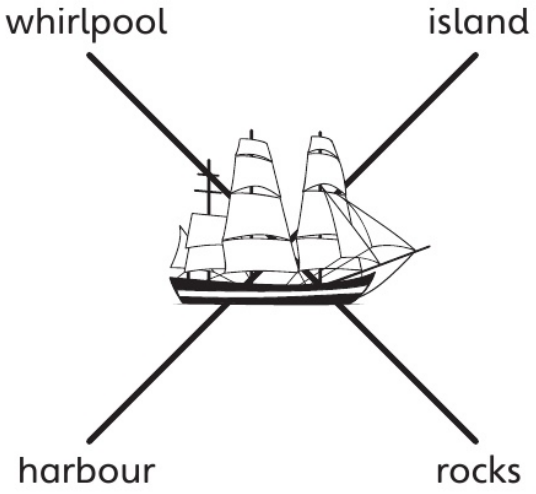
iv) 

☐° _____

vi) 

☐° _____

2 Complete the table for the different turns the ship makes.



Starts facing	Turns	Now facing
whirlpool	90° clockwise	
harbour	180° clockwise	
island	☐ ° anticlockwise	rocks
	360°	island
	270° clockwise	whirlpool

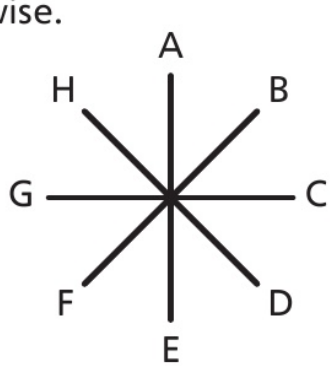
3 Describe each turn in degrees, clockwise or anticlockwise.

a) Turn from B to F ☐ °_____

b) Turn from H to B ☐ °_____

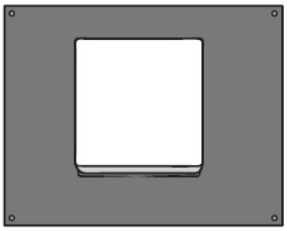
c) Turn from C to D ☐ °_____

d) Turn from D to A ☐ °_____

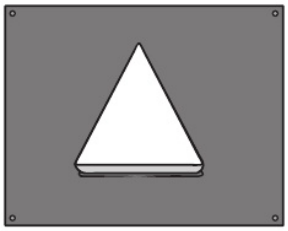


CHALLENGE

4 A robot has two buttons.

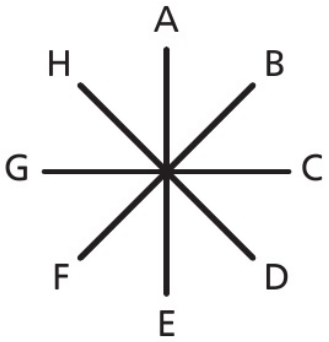


This button makes the robot turn 270° clockwise.



This button makes it turn 45° anticlockwise.

The robot is facing C and needs to face D.



Describe different combinations of button pushes you could use to make the robot complete this turn.

Which combination requires the fewest button pushes?

_____

_____

_____

_____

Reflect

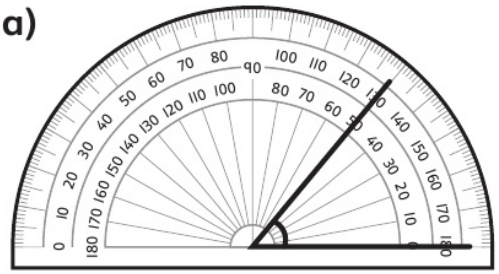
Draw diagrams to show turns of 90°, 180°, 270° and 45°.

Measure acute angles

→ Textbook 5C p12

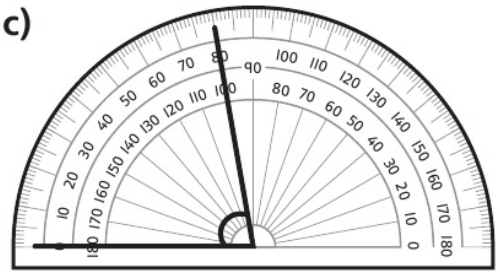
1 How many degrees is each angle?

a)



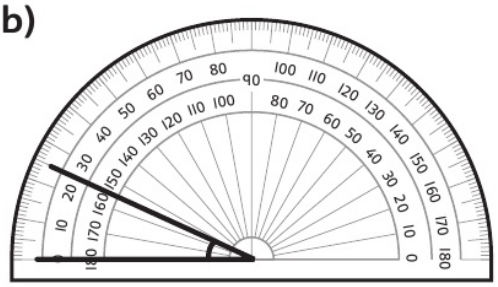
□°

c)



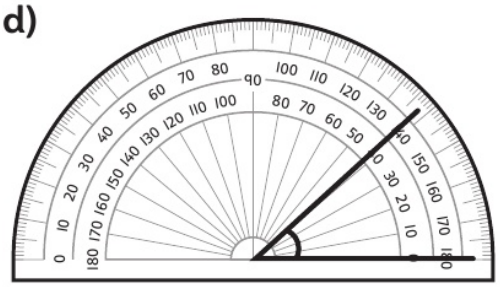
□°

b)



□°

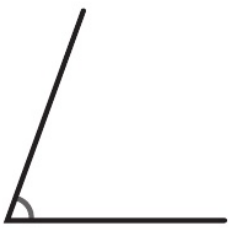
d)



□°

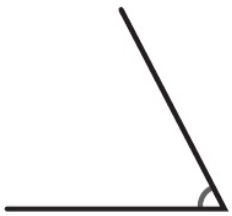
2 Measure each angle using a protractor.

a)



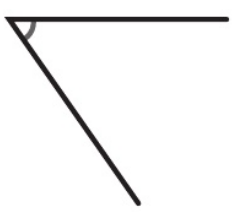
□°

c)



□°

b)



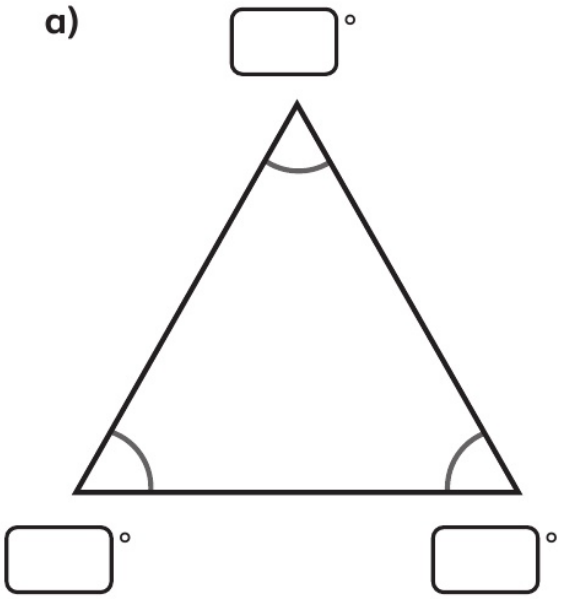
□°

d)

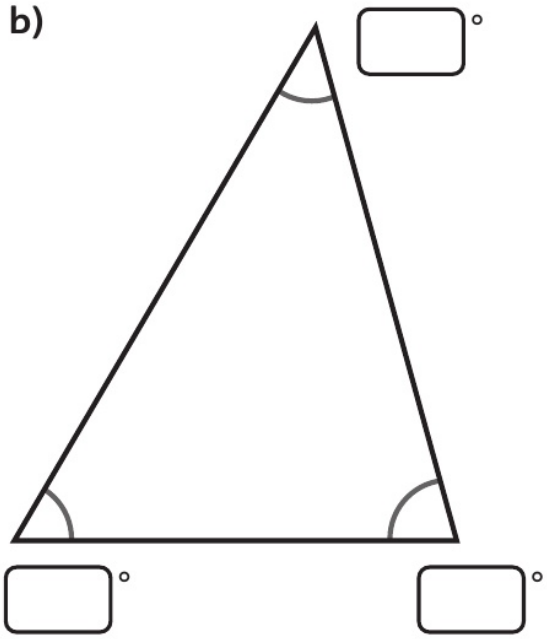
□°

3 Measure the angles in these triangles.

a)



b)

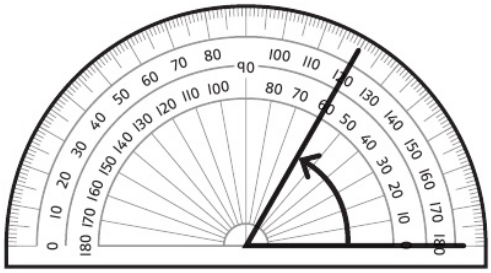


4 Explain the mistakes Richard and Emma have made.

a)

Richard

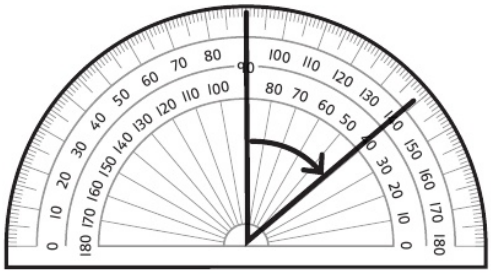
This angle is 120°.



b)

Emma

This angle is 40°.



CHALLENGE

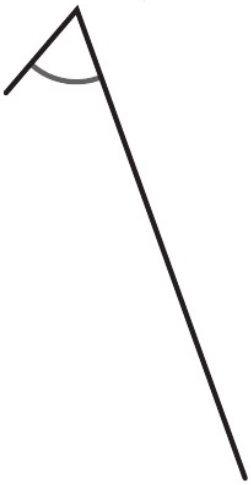
5 Isla says, 'I cannot measure these angles because some of the lines are too short.'

Find a way to measure these angles accurately and write the measurement beneath each angle.

a)

□°

b)



□°

c)

□°

Reflect

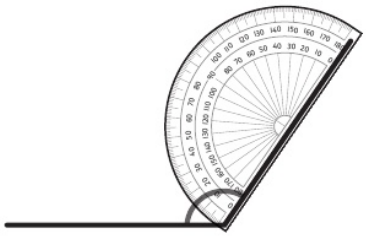
Explain the most important steps when measuring an angle with a protractor.

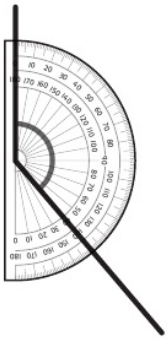
Date: _____

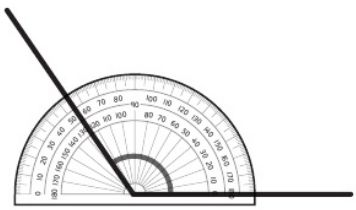
Textbook 5C p16

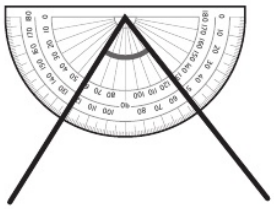
Measure angles up to 180°

1 Tick the protractors that have been placed correctly on the angles.

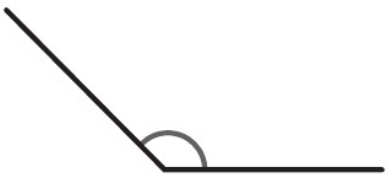
a)  ☐

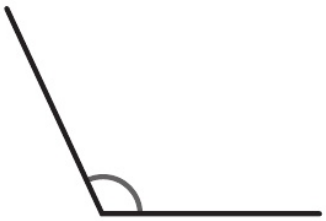
c)  ☐

b)  ☐

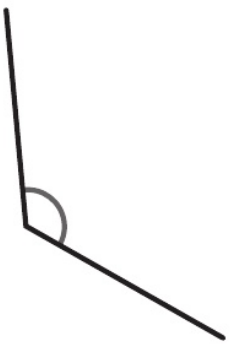
d)  ☐

2 Measure these angles accurately using a protractor.

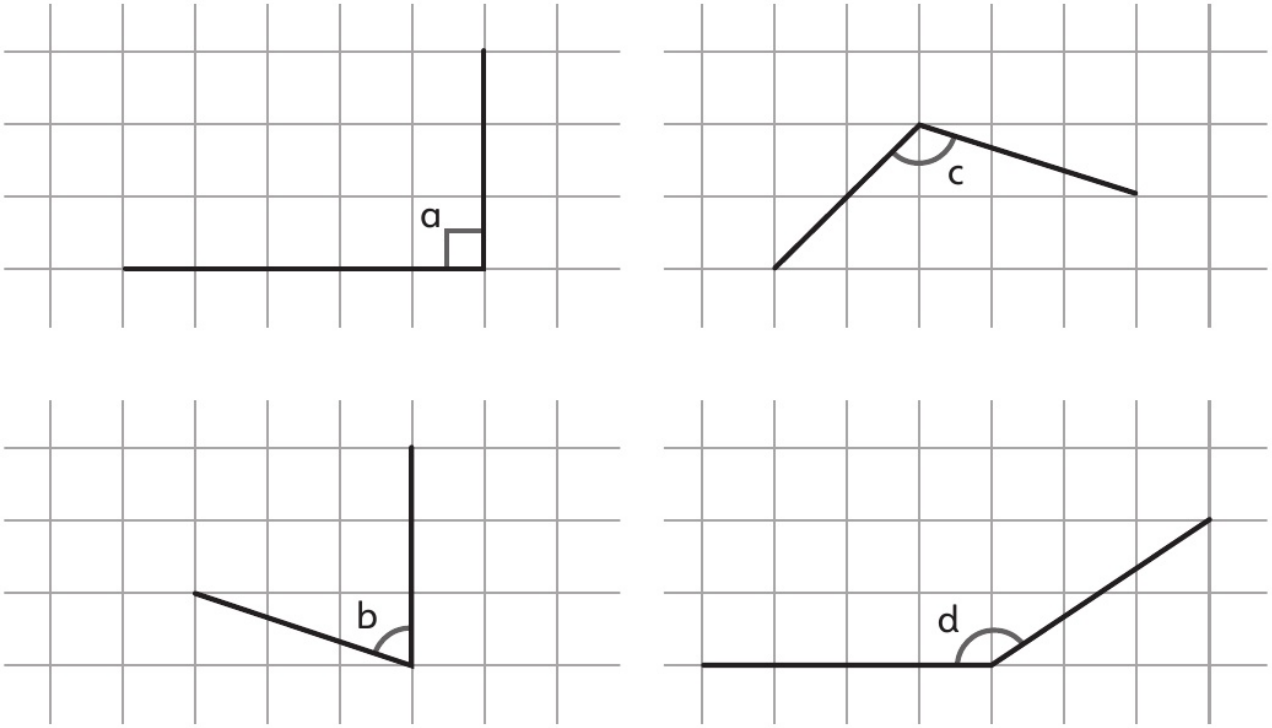
a)  ☐°

c)  ☐°

b)  ☐°

d)  ☐°

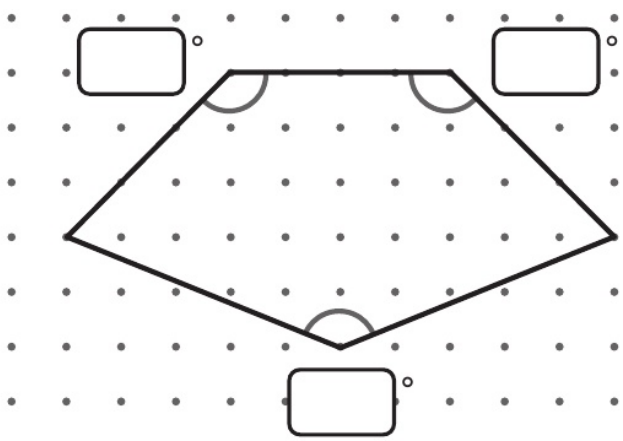
3 Put these angles in order, from greatest to smallest.



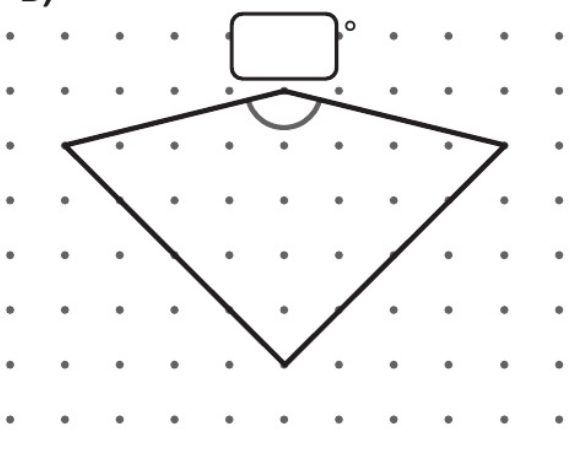
Greatest angle ☐ ☐ ☐ ☐ Smallest angle

4 Measure the obtuse angles in these shapes.

a)

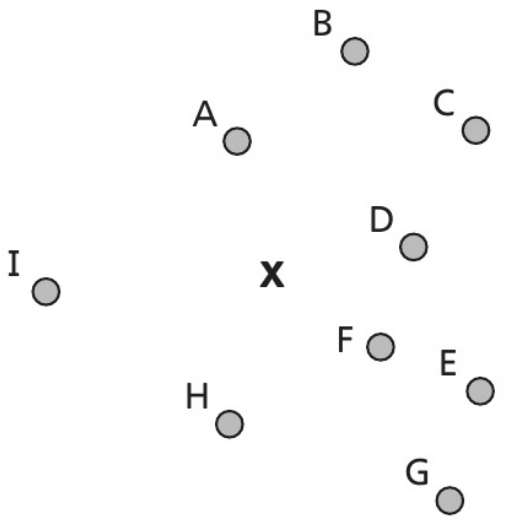


b)



5 Max stands at marker X. He turns to face different markers.

Measure the angles he turns and complete the table.



Turns clockwise from:	Angle of turn
A to F	
F to I	
I to B	
B to G	
G to I	

Reflect

How do you know which scale to read on a protractor when measuring an obtuse angle?

Draw lines and angles accurately

Textbook 5C p20

1 Complete the angles by adding another line.

a) Draw a 60° angle.

c) Draw a 30° angle.

b) Draw a 120° angle.

d) Draw a 90° angle.

2 Draw three different 45° angles.