


Lesson 2

L.O: I am learning to understand angles and directions.

A helpful revision video

Types of Angle  SHARE

Corbettmαths



Types of Angle

State what type of angles these are:

a) 52° Acute d) 200°

b) 161° Obtuse e) 351°

c) 90° right

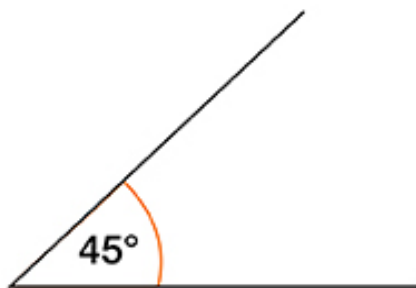
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<https://corbettmaths.com/2012/08/10/types-of-angle/>

TYPES OF ANGLES

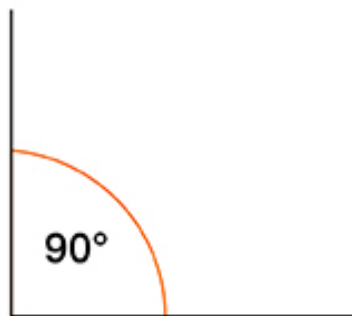
ACUTE ANGLE

An angle less than 90°



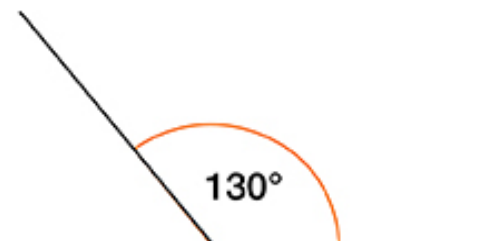
RIGHT ANGLE

An angle that is exactly 90°



OBTUSE ANGLE

An angle that measures between 90° and 180°



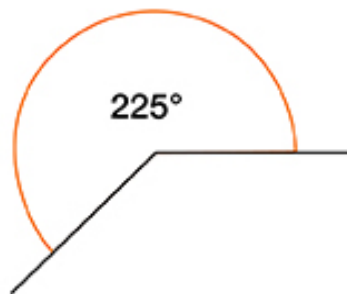
STRAIGHT ANGLE

An angle that is exactly 180°



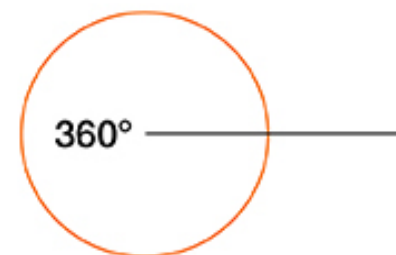
REFLEX ANGLE

An angle that measures between 180° and 360°

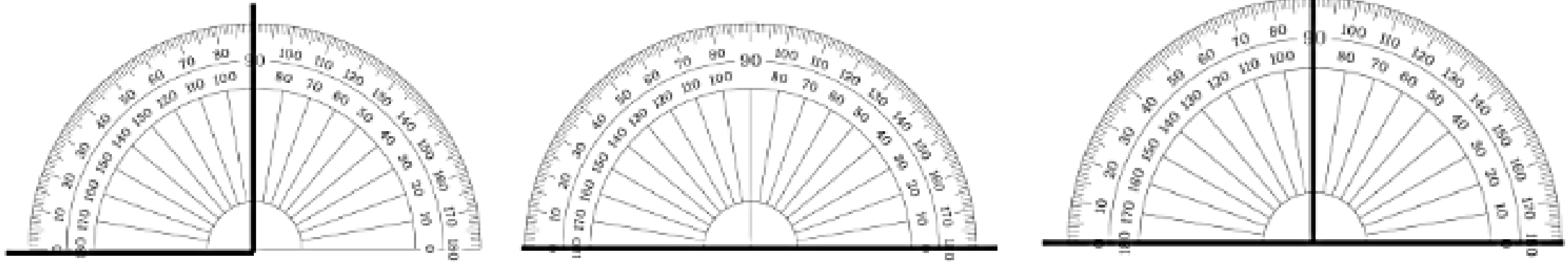


FULL ANGLE

An angle that is exactly 360°

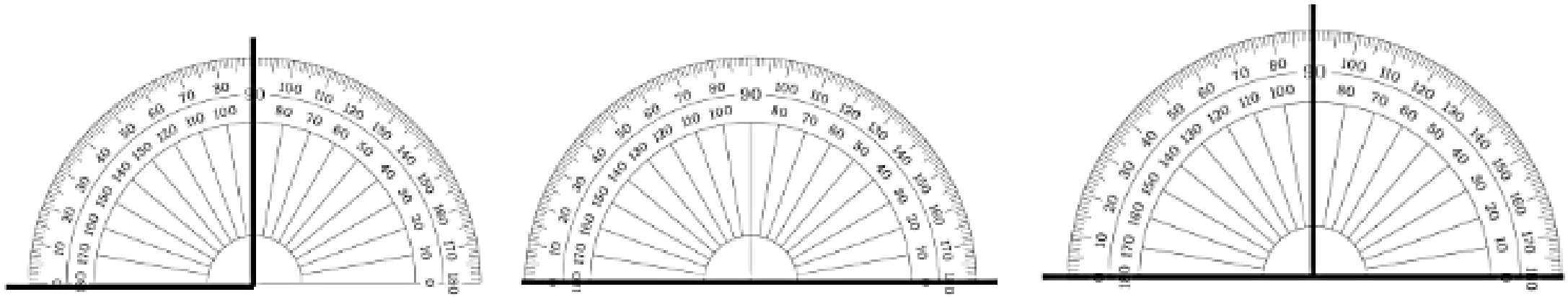


Starter



What can you say about these angles?
What type are they? How many are
there?

ANSWERS: Starter

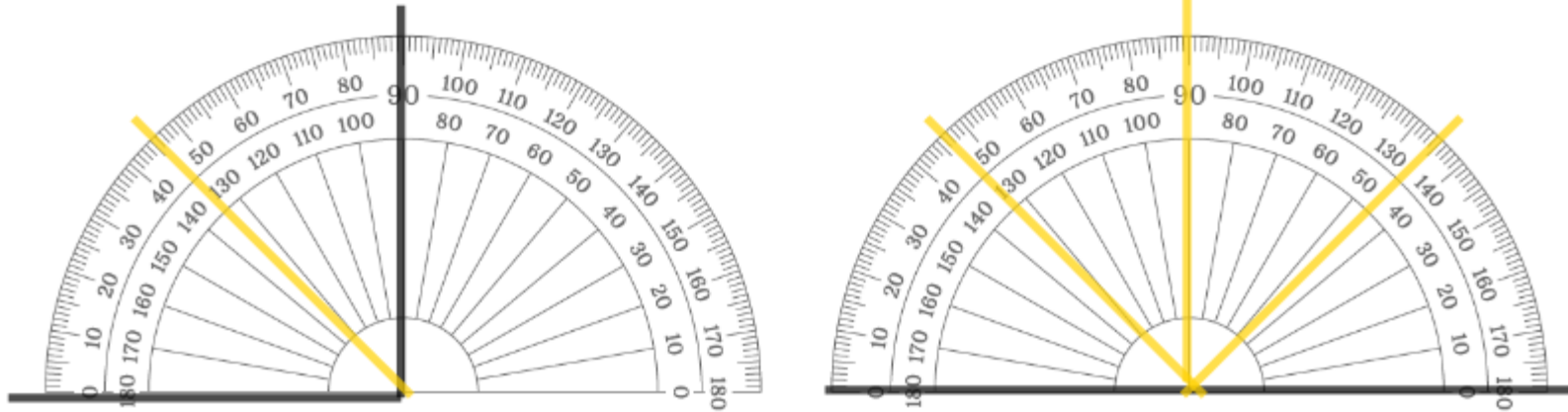


What can you say about these angles? What type are they? How many are there?

- There are 90° in a right angle.
- A straight line is equal to 180° .
- There are two right angles in a straight line

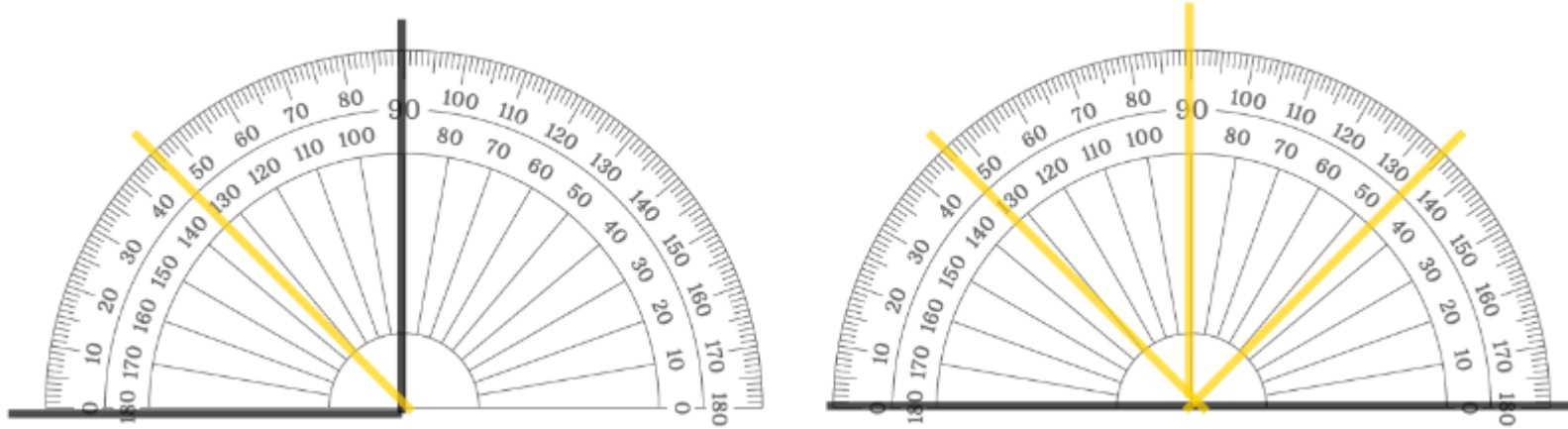


Making connections



What can you say about these angles?
What type are they? How many are
there?

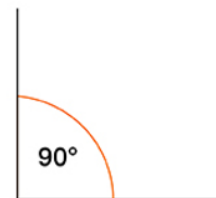
ANSWERS: Making connections



What can you say about these angles? What type are they? How many are there?

- There are two 45° angles in a right angle.
- There are four 45° angles in a straight line.

RIGHT ANGLE
An angle that is exactly 90°



STRAIGHT ANGLE
An angle that is exactly 180°





Angles, direction and compasses

How many degrees are
between North and West?

HINT: there are two answers
depending on what scale you
use!



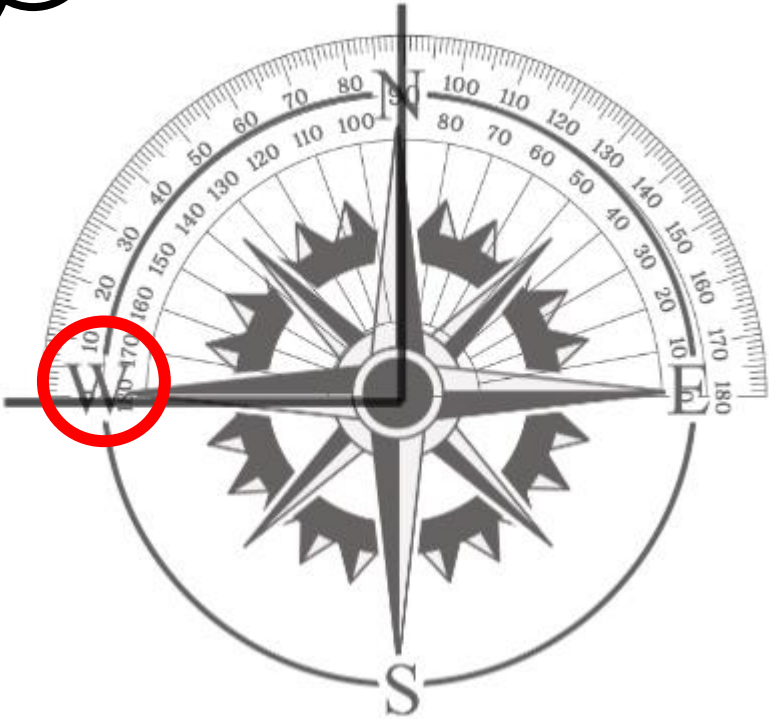
ANSWERS: Angles, direction and compasses

How many degrees are between North and West?

There are 90° between North and West – or 270° if you measure in a clockwise direction.



Angles, direction and compasses



How many degrees
are between West
and East?



Between which compass
points is there an angle of
 90° ?

ANSWERS: Angles, direction and compasses



How many degrees are between West and East?
There are 180° between West and East – both measuring in a clockwise and an anti-clockwise direction.

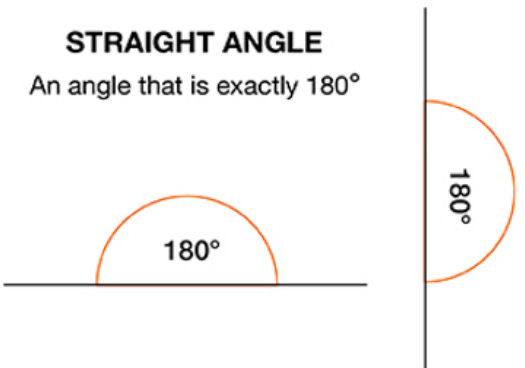
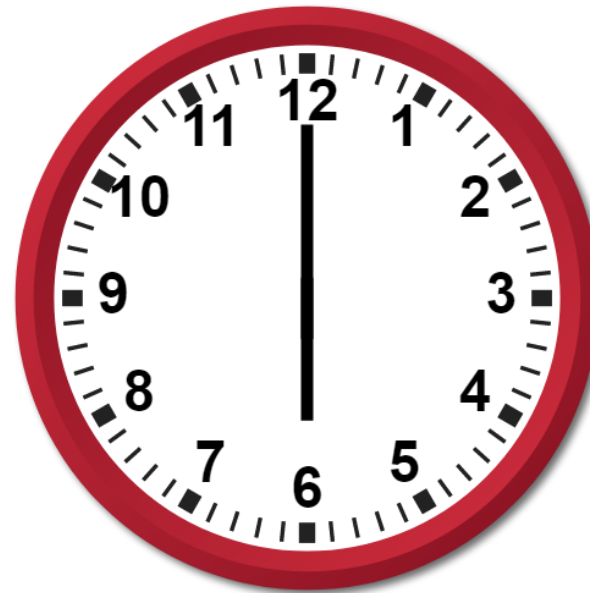


Between which compass points is there an angle of 90° ?
N to E, E to S, S to W, W to N

Angles, direction and clocks

True or false?

One clock reads 12 o'clock and another reads 6 o'clock, the hour arms are 180° apart?



Angles, direction and clocks



How many degrees does the minute hand turn each hour?



How many degrees does the minute hand turn per minute?



Hint: Use the answer from the first question and link this to how many minutes are in an hour!

Angles, direction and clocks

How many degrees does the minute hand turn each hour?

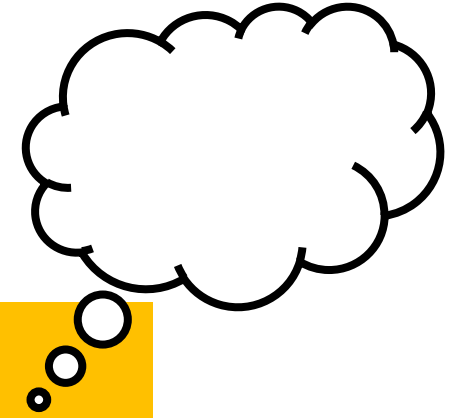
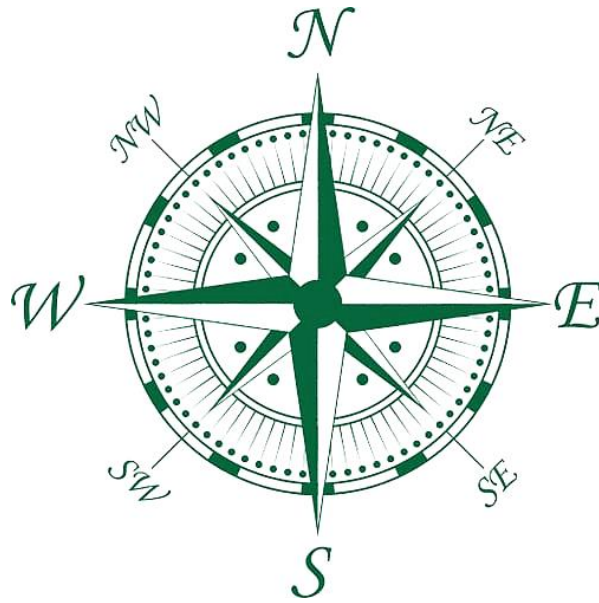


The minute hand makes a full turn each hour.
Therefore, it turns 360° per hour.

How many degrees does the minute hand turn per minute?



If the minute hand makes a full turn each hour
and we know there are 60 minutes per hour,
we can calculate that the minute hand passes
through 6° per minute, because $360^\circ \div 60 = 6^\circ$

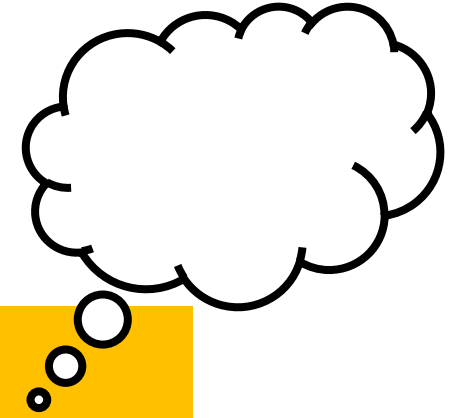
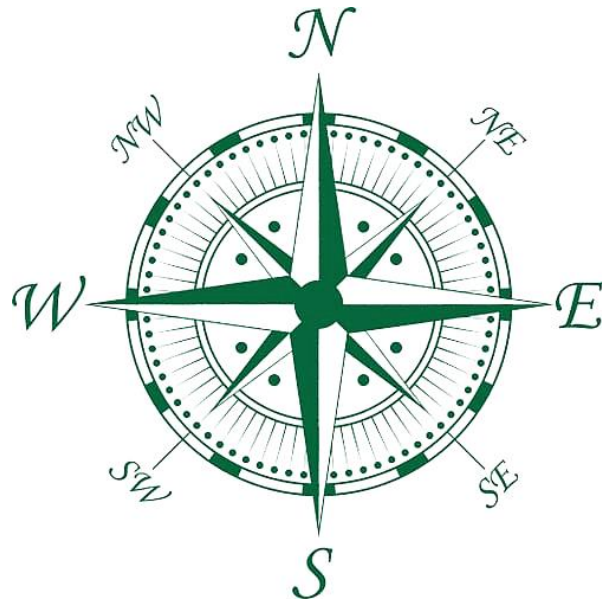


Always. Sometimes. Never

N to S = 180°

S to W = 270°

E to S = 270°



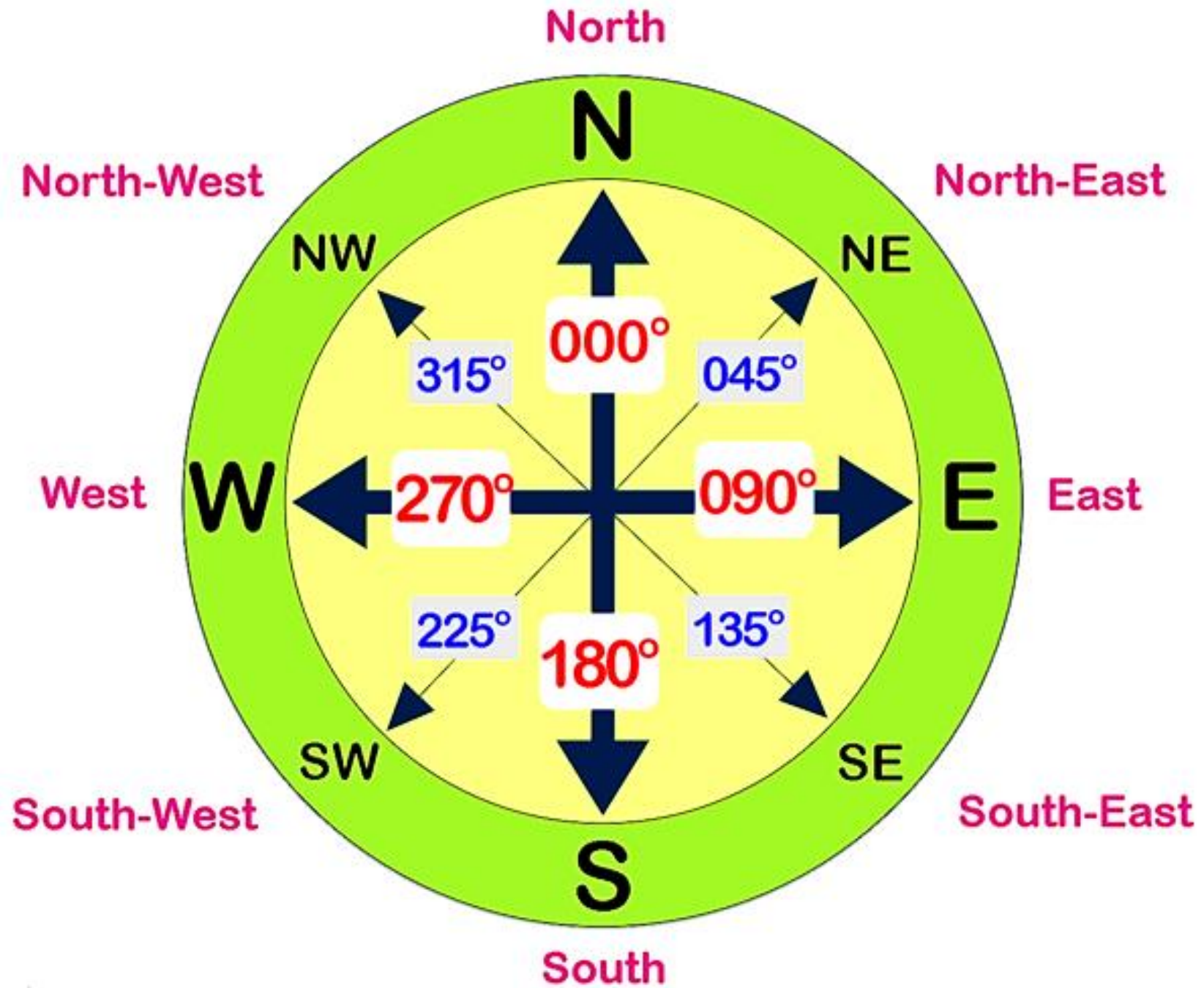
ANSWERS

N to S is always 180 in any direction.


S to W is 90° clockwise; 270° anticlockwise.

E to S is 90° clockwise; 270° anticlockwise.

Revision: Angles and direction



Once you have finished turn this assignment in on Google Classroom.



Task

All	All of you must complete the fluency section.
Most	Most of you will complete the fluency and reasoning sections.
Some	Some of you will complete the fluency, reasoning, and problem-solving sections.

Try your best – it is all we can ask for! 😊

This video may help if you are stuck at any point:
<https://corbettmaths.com/2012/08/10/types-of-angle/>

Week 1_Maths_Lesson 2

Lesson 2

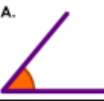
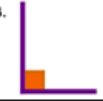


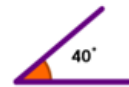
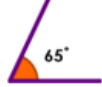
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Fluency

Key vocabulary: Acute, Obtuse, Right, Straight line, Reflex	Your answer
<p>1a. Which of the following shows a right angle?</p> <p>A.  B. </p>	
<p>5a. How many right angles in these shapes?</p> <p> </p>	
<p>11b. If you added the degrees both these angles together would the total be more or less than the degrees in a right angle?</p> <p> </p>	

Week 1_Maths_Lesson 2

Complete the sentences.

There is right angle in a quarter turn.

A quarter turn is degrees.

There are right angles in a half turn.

A half turn is degrees.


There are right angles in a three-quarter turn.

A three-quarter turn is degrees.

There are right angles in a full turn.

A full turn is degrees.

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° anticlockwise.
What direction is he facing now? _____