

Worksheet

Answer the questions on this worksheet in the boxes next to the challenge questions.

Remember:

The tasks are arranged in 3 challenges that get progressively more difficult.

- Challenge 1 is a “mild” challenge, if you are not confident
- Challenge 2 is “spicy”, a little bit more challenging, if you are feeling confident and find the first challenge too easy.
- Challenge 3 is “hot”. The questions are designed to challenge you and can be tricky.

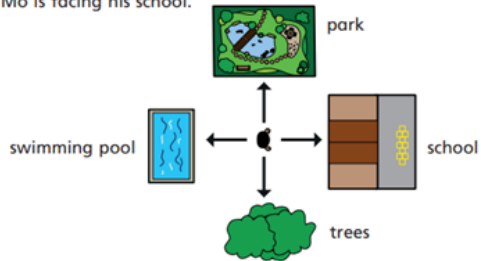
You can choose to do just one challenge or more than one, it is up to you. As a guide, if you are consistently getting everything correct, you should move up a challenge. If you are struggling on every question; move down a challenge.

Challenge 1:

Question	Answer
<p>1.</p> <p>Complete the stem sentences.</p> <p>A right angle measures ____ degrees.</p> <p>An acute angle measures less than ____ degrees.</p> <p>An obtuse angle measures more than ____ degrees but less than ____ degrees.</p> <p>A reflex angle measures more than ____ degrees but less than ____ degrees.</p> <p>-----</p>	

2.

Mo is facing his school.



Mo makes a half turn.

a) What is Mo facing now?

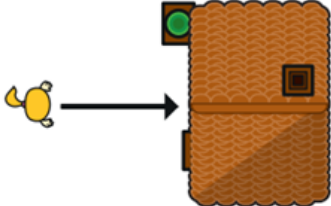
b) How many degrees did Mo turn through? degrees

3.

Convince Me!

An obtuse angle cannot measure more than 179 degrees.

Challenge 2:

Question	Answer
<p>1 Eva is facing her house.</p>  <p>She makes a full turn.</p> <p>a) What is Eva facing now?</p> <p>b) How many degrees has Eva turned through?</p>	

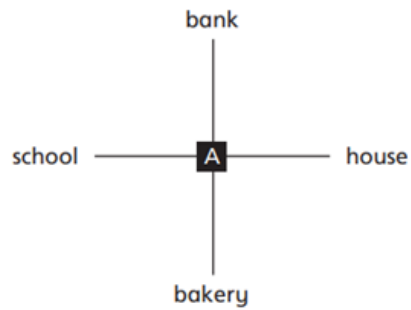
2.

Label an acute, obtuse and right angle in this shape.



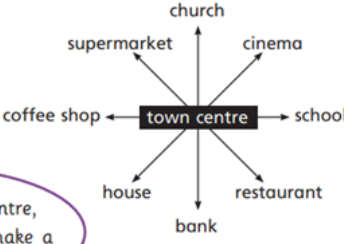

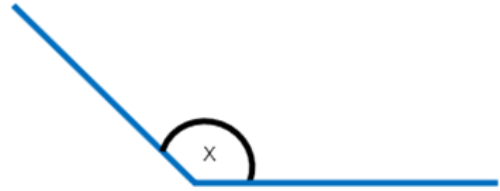
3.

Amir, Annie, Jack and Filip are standing at point A.



- (a) Amir is facing the bank, he turns 90 degrees clockwise. Which way is he facing now?
- (b) Fiona is facing the school, she turns to face the house. How many degrees did she turn through?

Challenge 3:

Question	Answer
<p>1.</p> <p>The diagram shows the direction of some places in relation to the centre of a town.</p>  <p> I am in the town centre, facing the cinema. I make a 90° turn clockwise.</p> <p>What is Tommy facing now? _____</p> <p>Create another direction problem like this, for one of your family or friends to solve.</p>	
<p>2.</p> <p>Which angle is the odd one out?</p> <p>180° 45° 79° 270°</p> <p>Could another angle be the odd one out for a different reason?</p>	
<p>3.</p> <p>How many degrees could angle x measure?</p>  <p>Justify your answer</p>	