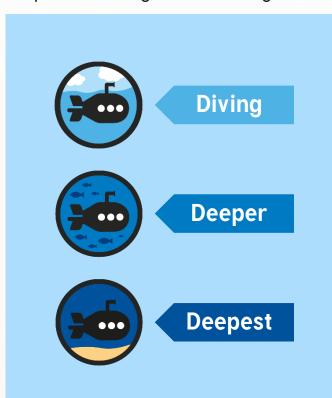




Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

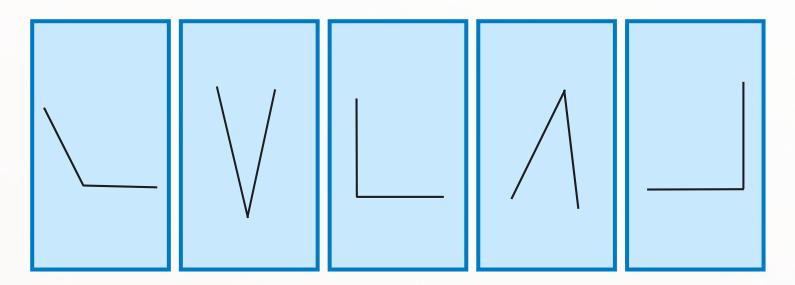
National Curriculum Objective

• Identify acute and obtuse angles and compare and order angles up to two right angles by size.

Diving



Which angles are acute?



What other types of angle can you identify above?

one obtuse angle and two right angles

Identify Angles

Diving



Look at this trapezium. What types of angles can you see inside it?

obtuse

obtuse

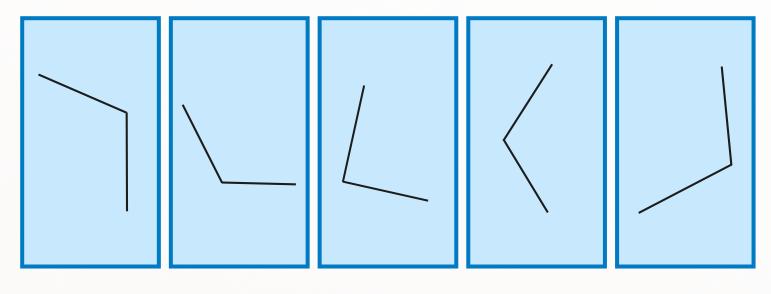
acute

acute

Deeper



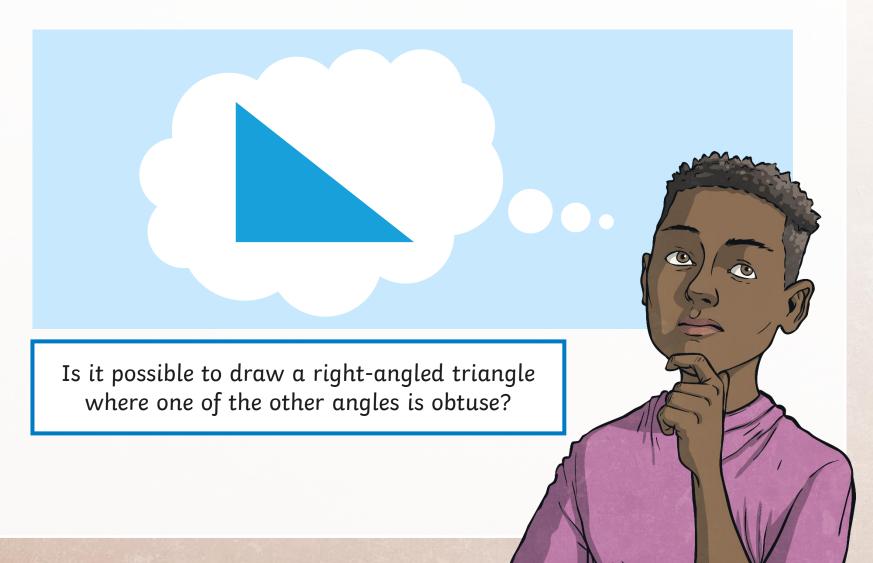
Which angle is the odd one out?



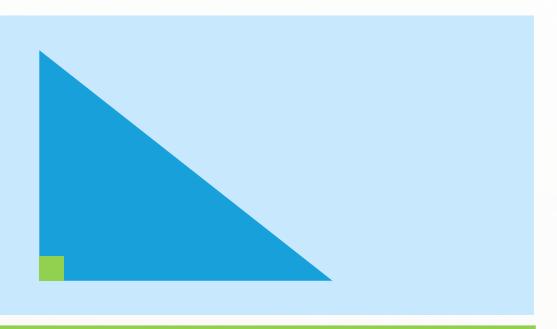
Why?

It's the only angle that isn't obtuse; it's a right angle.







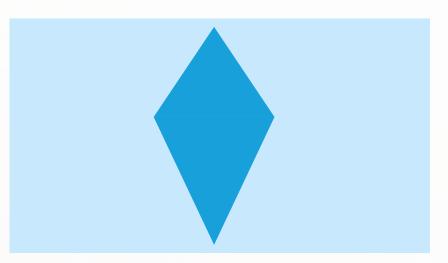


The angles in a triangle always total 180 degrees. Therefore, in a right-angled triangle, the right angle is 90 degrees, making it impossible for either angles to be obtuse.



Which of these statements about a kite is:

- a) never true?
- b) always true?
- c) sometimes true?



A kite has two equal angles.

A kite has four right angles.

A kite has two equal obtuse angles.

always true

never true

sometimes true



A right angle is 90°.

An obtuse angle is greater than 90° but smaller than 180°. An acute angle is smaller than 90°.

Using these facts, what is the smallest number of degrees you could add to **45°** to make an obtuse angle? How do you know?

46°
The smallest obtuse angle
must be 91° and 45 + 46 = 91.



Identify Angles

Dive in by completing your own activity!

