

Year 6 – Summer Block 1 – Properties of Shape – Calculate Angles

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 6: (6G4b) [Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles](#)

More [Year 6 Properties of Shapes](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Year 6 – Summer Block 1 – Properties of Shape
Good morning, Year 6 – it's Wednesday 3rd June 2020

Part 1 - Fluency

WALT: Calculate Angles

*See my green notes to help
you.*

Introduction

Look around the room you're in.

How many 90° angles can you spot?



Introduction

Look around your classroom.

How many 90° angles can you spot?

**Possible answers: the corner of a book
cover**

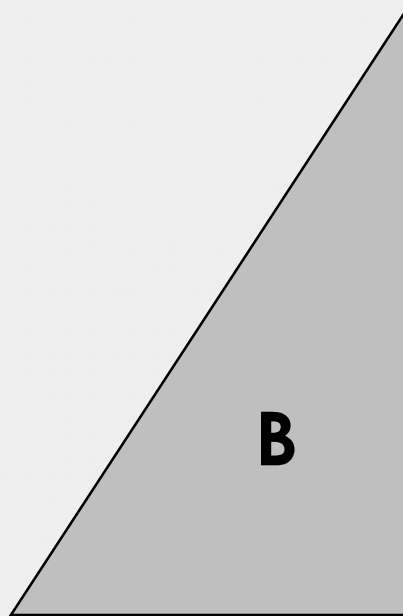
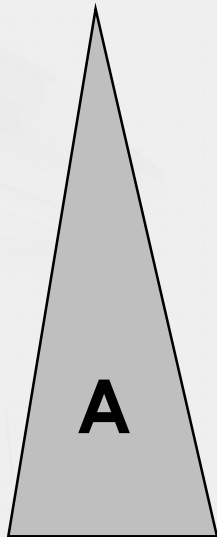
the corner of a table, desk or shelf

a doorframe

the corners of a window

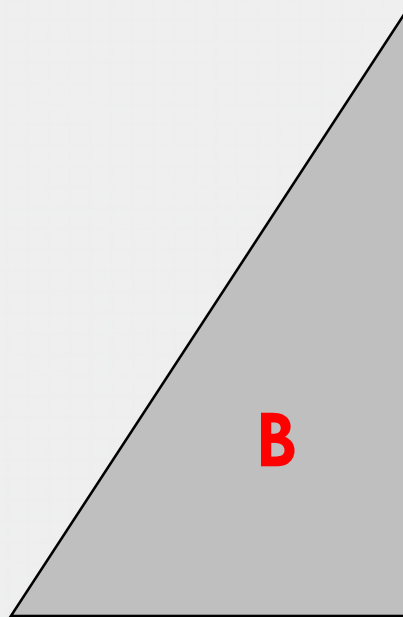
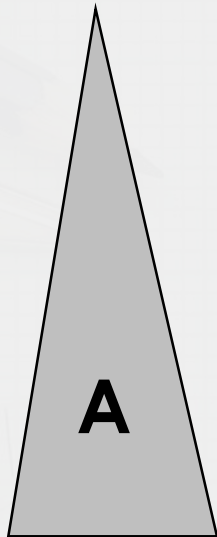
Varied Fluency 1

Identify the triangle which has a right angle.



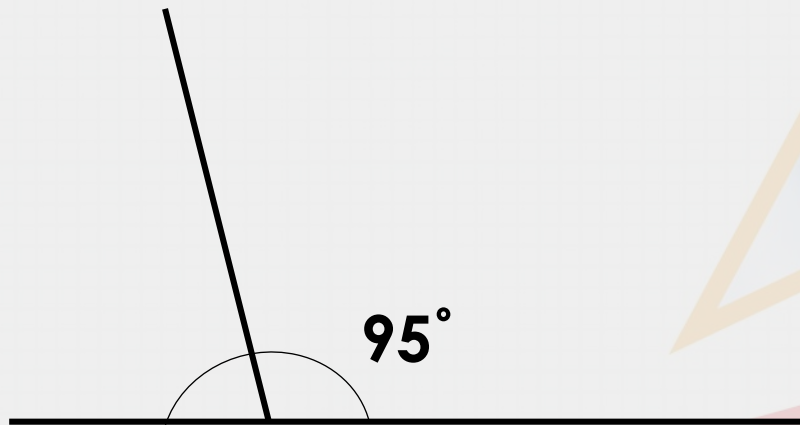
Varied Fluency 1

Identify the triangle which has a right angle.



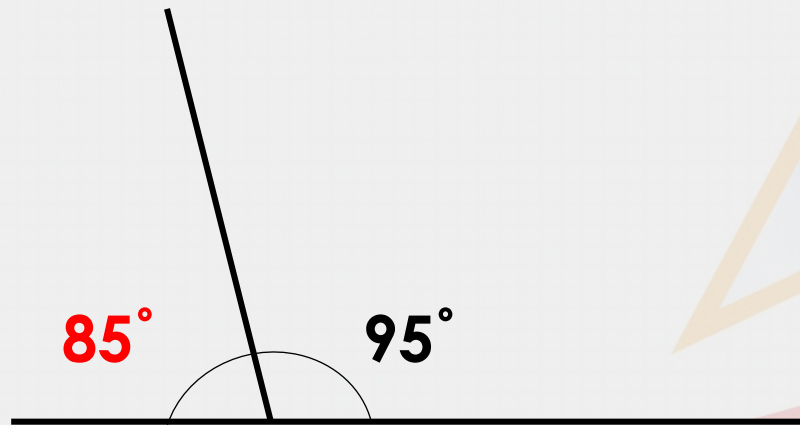
Varied Fluency 2

What is the missing angle?



Varied Fluency 2

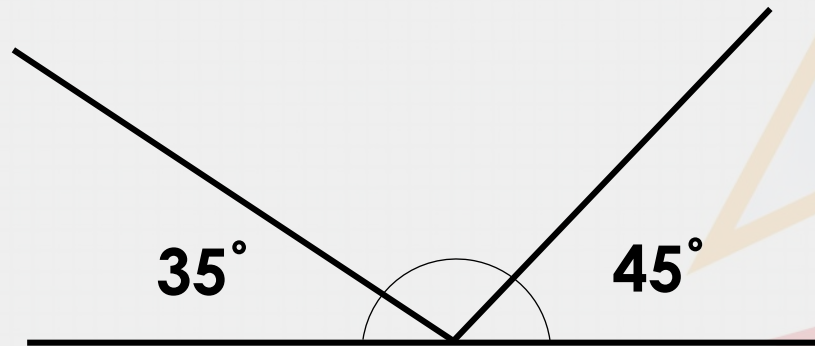
What is the missing angle?



$$180^\circ - 95^\circ = 85^\circ$$

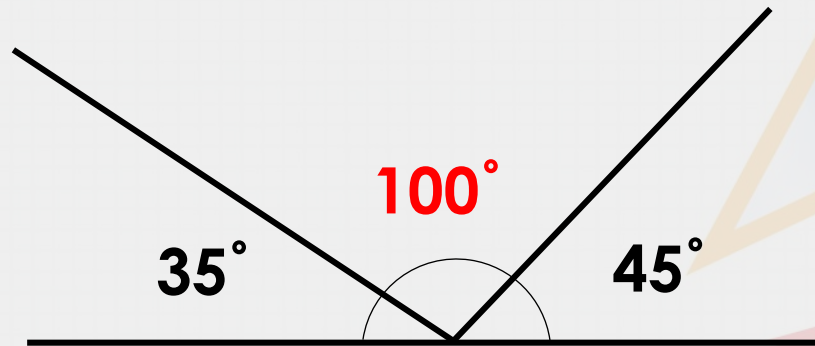
Varied Fluency 3

What is the missing angle?



Varied Fluency 3

What is the missing angle?



$$180^\circ - 35^\circ - 45^\circ = 100^\circ$$

Varied Fluency 4

True or false?

**35° and 65° and 70°
is equal to a straight line?**

Varied Fluency 4

True or false?

35° and 65° and 70°
is equal to a straight line?

False: $35^\circ + 65^\circ + 70^\circ = 170^\circ$

It would need to add up to 180 ° to make a straight line.

Well done! It's over to you now.

Go to Part 2 and choose your challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen challenge – the 'A' questions. If you want extra practice, you can then do the 'B' questions of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.