

Varied Fluency

Step 6: Angles in a Triangle 2

National Curriculum Objectives:

Mathematics Year 6: (6G4a) [Find unknown angles in any triangles, quadrilaterals, and regular polygons](#)

Mathematics Year 6: (6G2a) [Compare and classify geometric shapes based on their properties and sizes](#)

Differentiation:

Developing Questions to support recognising and finding the value of angles in isosceles and right-angled triangles (when angles are given in multiples of 10).

Expected Questions to support recognising and finding the value of angles in isosceles and right-angled triangles (when angles are given in multiples of 5).

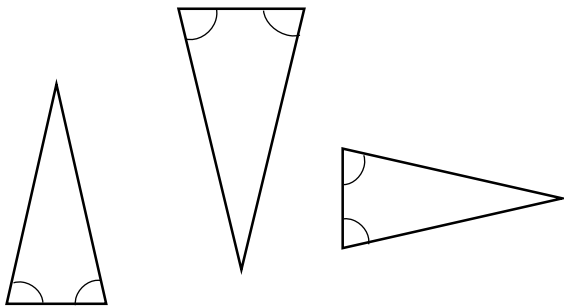
Greater Depth Questions to support recognising and finding the value of angles in isosceles and right-angled triangles (when angles are given in exact degrees).

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

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

Angles in a Triangle 2

1a. Draw on the markings for the equal length sides. Equal angles are marked already.

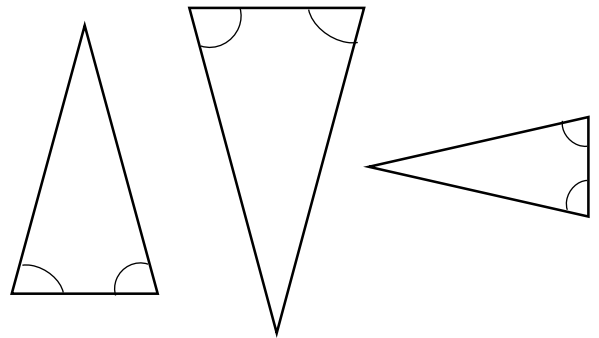


Triangles not drawn to scale.

VF

Angles in a Triangle 2

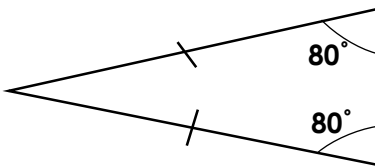
1b. Draw on the markings for the equal length sides. Equal angles are marked already.



Triangles not drawn to scale.

VF

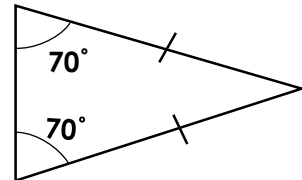
2a. Find the missing angle in this triangle.



Triangles not drawn to scale.

VF

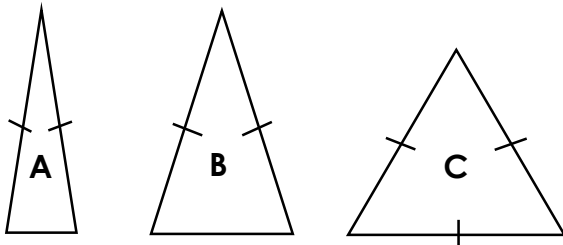
2b. Find the missing angle in this triangle.



Triangles not drawn to scale.

VF

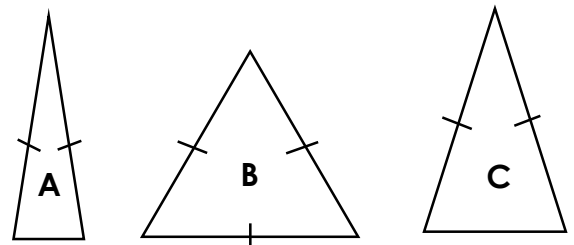
3a. Which triangle is the odd one out?



Triangles not drawn to scale.

VF

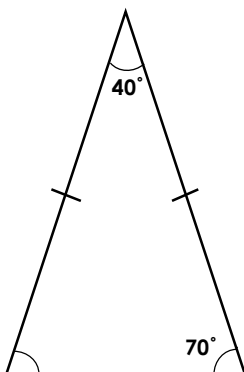
3b. Which triangle is the odd one out?



Triangles not drawn to scale.

VF

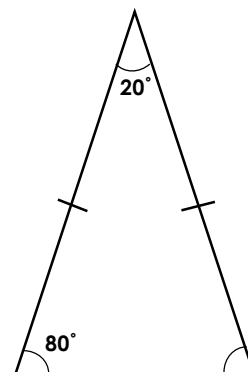
4a. Label the missing information on this triangle.



Triangles not drawn to scale.

VF

4b. Label the missing information on this triangle.

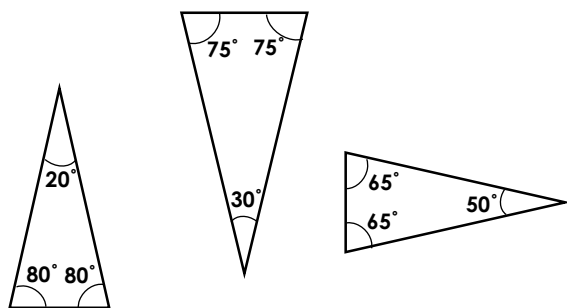


Triangles not drawn to scale.

VF

Angles in a Triangle 2

5a. Draw on the markings for the equal length sides.

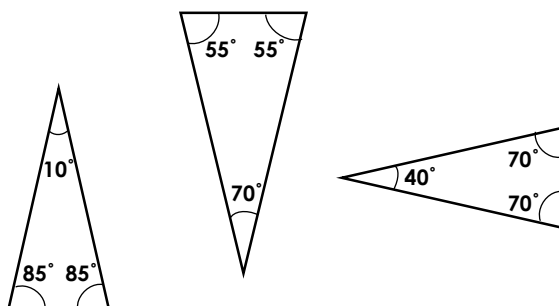


Triangles not drawn to scale.

VF

Angles in a Triangle 2

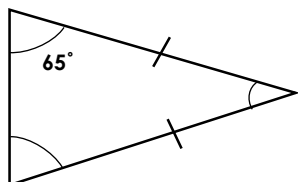
5b. Draw on the markings for the equal length sides.



Triangles not drawn to scale.

VF

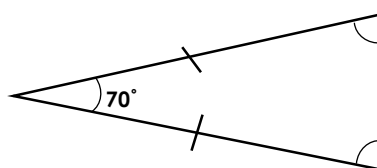
6a. Find the missing angles in this triangle.



Triangles not drawn to scale.

VF

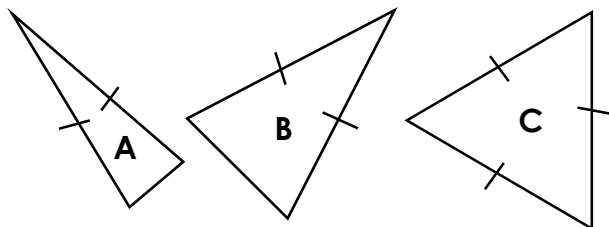
6b. Find the missing angles in this triangle.



Triangles not drawn to scale.

VF

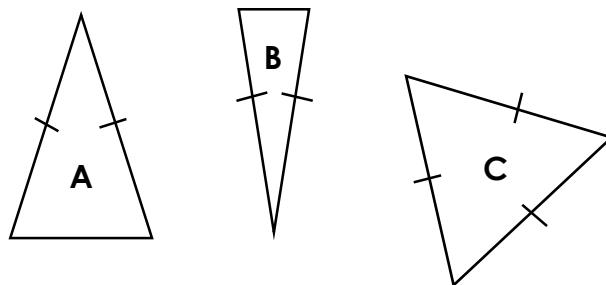
7a. Which triangle is the odd one out?



Triangles not drawn to scale.

VF

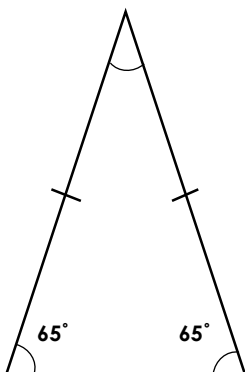
7b. Which triangle is the odd one out?



Triangles not drawn to scale.

VF

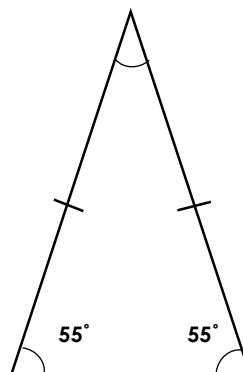
8a. Label the missing information on this triangle.



Triangles not drawn to scale.

VF

8b. Label the missing information on this triangle.

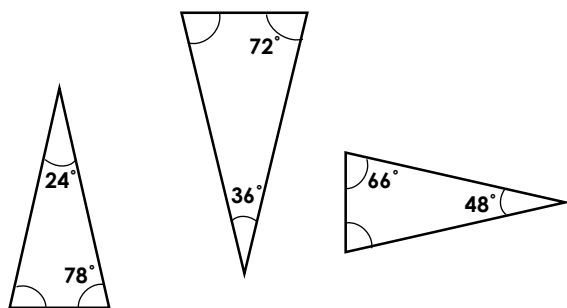


Triangles not drawn to scale.

VF

Angles in a Triangle 2

9a. Draw on the markings for the equal length sides.

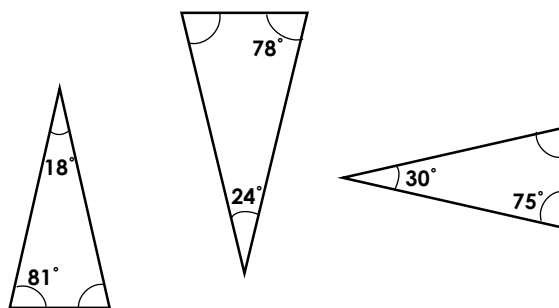


Triangles not drawn to scale.

VF

Angles in a Triangle 2

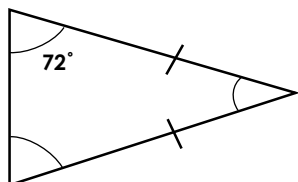
9b. Draw on the markings for the equal length sides.



Triangles not drawn to scale.

VF

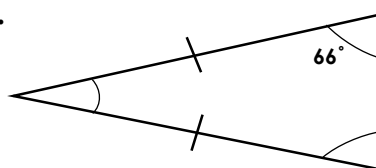
10a. Find the missing angles in this triangle.



Triangles not drawn to scale.

VF

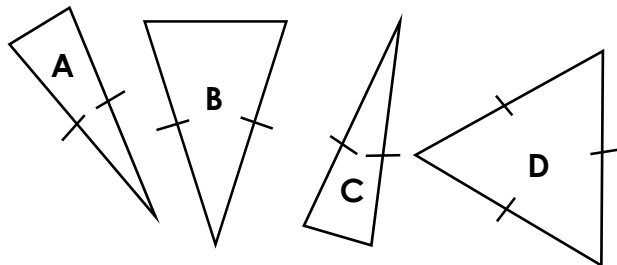
10b. Find the missing angles in this triangle.



Triangles not drawn to scale.

VF

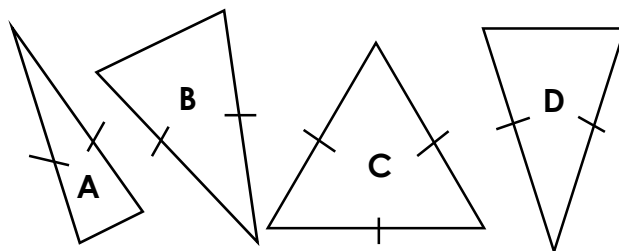
11a. Which triangle is the odd one out?



Triangles not drawn to scale.

VF

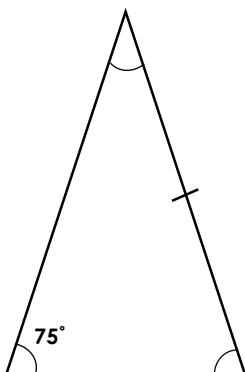
11b. Which triangle is the odd one out?



Triangles not drawn to scale.

VF

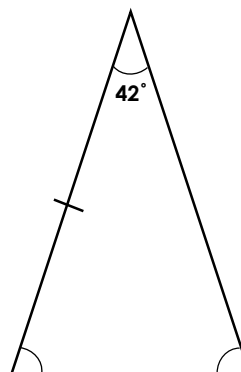
12a. Label the missing information on this triangle.



Triangles not drawn to scale.

VF

12b. Label the missing information on this triangle.



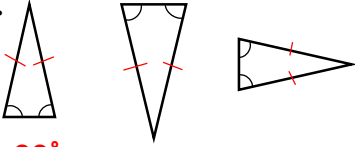
Triangles not drawn to scale.

VF

Varied Fluency Angles in a Triangle 2

Developing

1a.



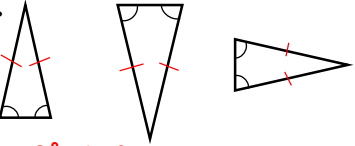
2a. 20°

3a. C because it is an equilateral triangle with 3 equal angles and sides.

4a. 70°

Expected

5a.



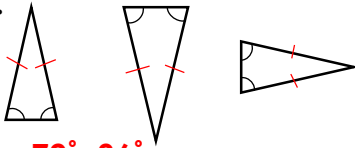
6a. $50^\circ, 65^\circ$

7a. C because it is an equilateral triangle with 3 equal angles and sides.

8a. 50°

Greater Depth

9a.



10a. $72^\circ, 36^\circ$

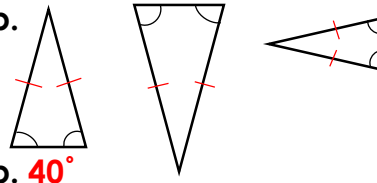
11a. D because it is an equilateral triangle with 3 equal angles and sides.

12a. Missing equal length side marking, $75^\circ, 30^\circ$

Varied Fluency Angles in a Triangle 2

Developing

1b.



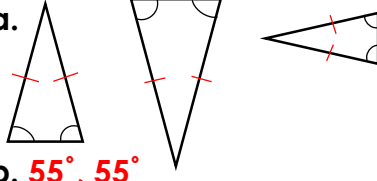
2b. 40°

3b. B because it is an equilateral triangle with 3 equal angles and sides.

4b. 80°

Expected

5a.



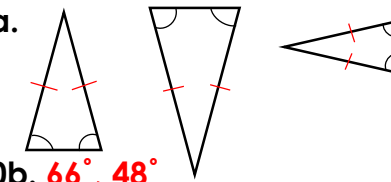
6b. $55^\circ, 55^\circ$

7b. C because it is an equilateral triangle with 3 equal angles and sides.

8b. 70°

Greater Depth

9a.



10b. $66^\circ, 48^\circ$

11b. C because it is an equilateral triangle with 3 equal angles and sides.

12b. Missing equal length side marking, $69^\circ, 69^\circ$