## Varied Fluency <br> Step 5: Angles in a Triangle

## National Curriculum Objectives:

Mathematics Year 6: (6G3a) Draw 2-D shapes using given dimensions and angles Mathematics Year 6: (6G2a) Compare and classify geometric shapes based on their properties and sizes
Mathematics Year 6: (6G4a) Find unknown angles in any triangles, quadrilaterals, and regular polygons

## Differentiation:

Developing Questions to support calculating one missing angle in a triangle (angles given in multiples of 10).
Expected Questions to support calculating up to two missing angles in a triangle (angles given in multiples of 5).
Greater Depth Questions to support calculating up to two missing angles in a triangle (when angles are given in one degree increments).

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 1

## Angles in a Triangle 1

1a. Which triangle is missing an acute angle?


A


C

1b. Which triangles are missing a right angle?


Triangles not drawn to scale.

2a. Is this a right-angle or a scalene triangle?


Triangles not drawn to scale.

2b. Is this an isosceles or a scalene triangle?


Triangles not drawn to scale.
VF
3b. All the angles in a triangle add to make $180^{\circ}$. Find angle $y$.


Triangles not drawn to scale.
4b. Which is the odd one out?


## Angles in a Triangle 1

## Angles in a Triangle 1

5a. Which triangle is missing an acute angle?


A


Triangles not drawn to scale.

5b. Which triangles are missing a right angle?


B

Triangles not drawn to scale.
VF

6a. What kind of triangle is this?

Triangles not drawn to scale.


综

7a. Find the missing angle.


Triangles not drawn to scale.

VF VF

6b. What kind of triangle is this?


Triangles not drawn to scale.
VF
7b. Find the missing angles.


Triangles not drawn to scale.
VF
8 b . Which is the odd one out?


Triangles not drawn to scale.

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## Angles in a Triangle 1

Angles in a Triangle 1

9a. Which triangle's angles do not add up correctly?


10a. Which angle is incorrectly marked?


Triangles not drawn to scale.
11a. Find the missing angles.


Triangles not drawn to scale.
12a. Which is the odd one out?


Triangles not drawn to scale.

9b. Which triangle's angles do not add up correctly?


A


C
Triangles not drawn to scale.
VF
10b. Which angle is incorrectly marked?


Triangles not drawn to scale.
VF
11b. Find the missing angles.


Triangles not drawn to scale.
VF
12b. Which is the odd one out?


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## Angles in a Triangle 1

## Developing

1a. C
2a. Right triangle
$3 \mathrm{a} .90^{\circ}$
4a. B

## Expected

5a. A
6a. Right-angled scalene
$7 \mathrm{a} .70^{\circ}$
8a. B

## Greater Depth

9a. B
10a. C, it should be $76^{\circ}$
11a. $90^{\circ}$ and $23^{\circ}$
12a. A (only scalene triangle) or C (only triangle with an obtuse angle)

## Developing

1b. B and C
2b. Scalene triangle
3b. $60^{\circ}$
4b. C
Expected
5b. A and B
6b. Isosceles
7b. $90^{\circ}$ and $65^{\circ}$
8b. D

## Greater Depth

9b. A
10b. $B$, it should be $100^{\circ}$
$11 \mathrm{~b} .90^{\circ}$ and $72^{\circ}$
12b. B (only isosceles triangle) or C (only triangle with a right angle)

