Homework/Extension
Step 6: Angles in a Triangle 2

National Curriculum Objectives:

Mathematics Year 4: (4F8) Compare numbers with the same number of decimal places up to two decimal places
Mathematics Year 4: (4F10b) Solve simple measure and money problems involving fractions and decimals to two decimal places

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Calculating missing angles when finding one missing angle (where all angles are multiples of 10) in isosceles and right-angled triangles.
Expected Calculating missing angles when finding two missing angles in isosceles and right-angled triangles (when angles are in multiples of 5).
Greater Depth Calculating missing angles when finding two missing angles in isosceles and right-angled triangles (when angles are given in exact degrees).

Questions 2, 5 and 8 (Varied Fluency)
Developing Decide whether a statement is true or false when finding one missing angle (where all angles are multiples of 10) in isosceles and right-angled triangles.
Expected Decide whether a statement is true or false when finding two missing angles in isosceles and right-angled triangles (when angles are in multiples of 5).
Greater Depth Decide whether a statement is true or false when finding two missing angle in isosceles and right-angled triangles (when angles are given in exact degrees).

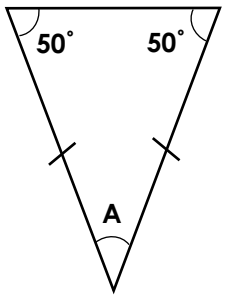
Questions 3, 6 and 9 (Problem Solving and Reasoning)
Developing Decide which statement is correct and explain why when finding one missing angle (where all angles are multiples of 10) in isosceles and right-angled triangles.
Expected Decide which statement is correct and explain why when finding two missing angles in isosceles and right-angled triangles (when angles are in multiples of 5).
Greater Depth Decide which statement is correct and explain why when finding two missing angle in isosceles and right-angled triangles (when angles are given in exact degrees).

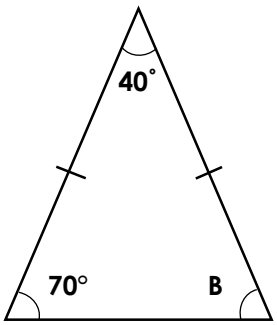
More Year 6 Properties of Shapes resources.

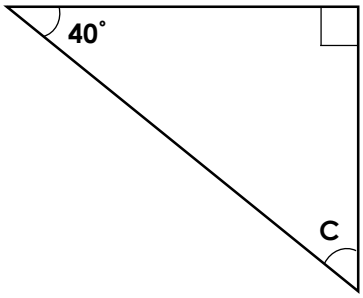
Did you like this resource? Don't forget to review it on our website.

Angles in a Triangle 2

1. Match each triangle to its missing angle.







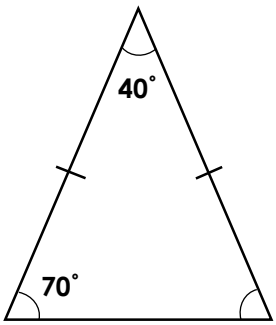
70°	80°	50°

Triangles not drawn to scale.

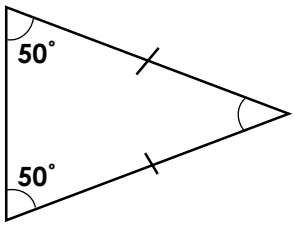
VF
HW/Ext

2. True or false? The missing angles in the triangles below are all equal.

A.



B.



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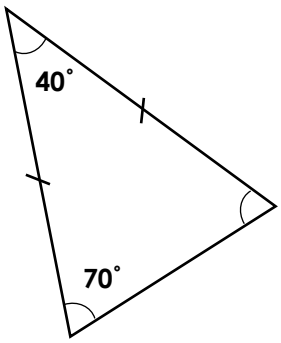
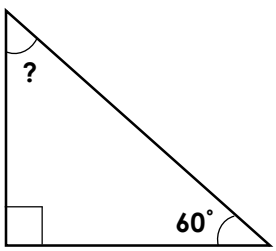


Triangles not drawn to scale.

VF
HW/Ext

3. Hafsa and Chuan are calculating angles in the triangle below.



Chuan

The missing angle is 60°.

Hafsa

The missing angle is 30°.

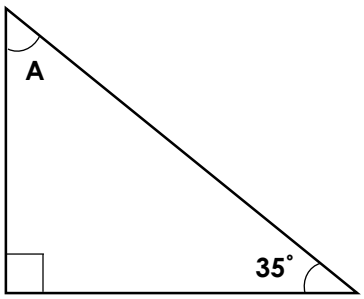
Who is correct?
Explain how you know.

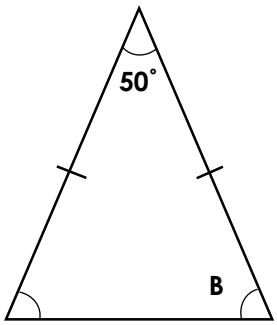
Triangles not drawn to scale.

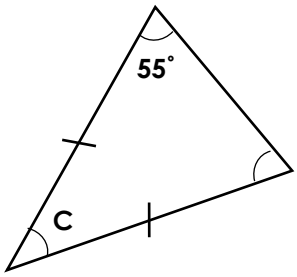
RPS
HW/Ext

Angles in a Triangle 2

4. Match each triangle to its missing angle.







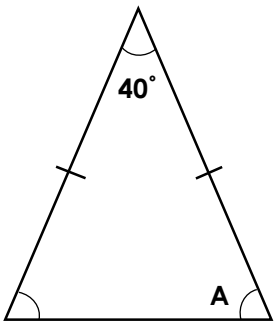
70°	55°	65°

Triangles not drawn to scale.

VF
HW/Ext

5. True or false? The missing angles in the triangles below are all equal.

A.



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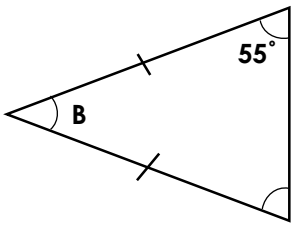

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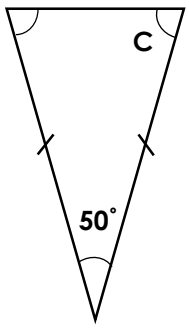
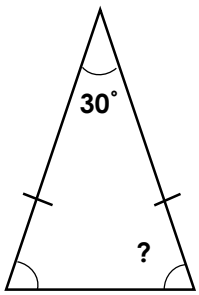


Triangles not drawn to scale.

VF
HW/Ext

6. Steph and Sean are calculating angles in the triangle below.



Steph

The missing angle is 55°.

Sean

The missing angle is 75°.

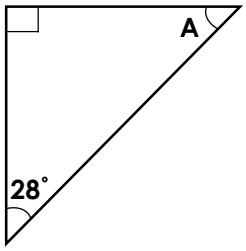
Who is correct?
Explain how you know.

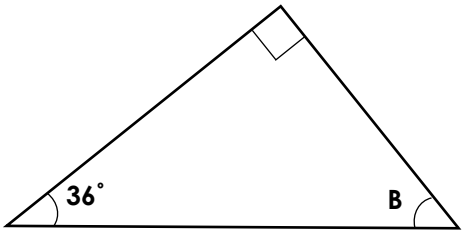
Triangles not drawn to scale.

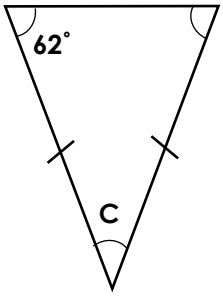
RPS
HW/Ext

Angles in a Triangle 2

7. Match each triangle to its missing angle.







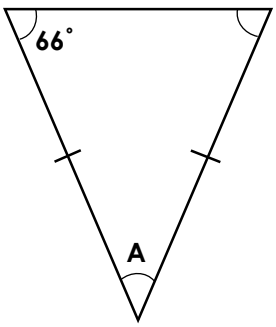
56°	62°	54°

Triangles not drawn to scale.

VF
HW/Ext

8. True or false? The missing angles in the triangles below are all equal.

A.



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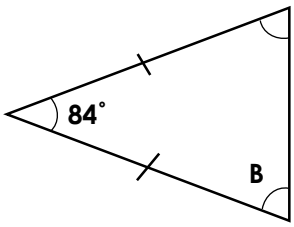

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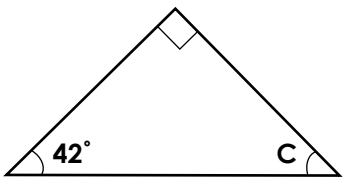
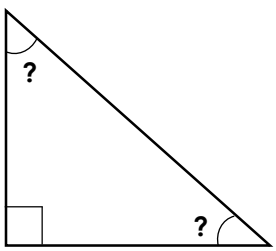


Triangles not drawn to scale.

VF
HW/Ext

9. Alice and Johnny are calculating angles in the triangle below.



Alice

The missing angles could be 56° and 34°.

Johnny

The missing angles could be 49° and 41°.

Who is correct?
Explain how you know.

Triangles not drawn to scale.

RPS
HW/Ext

Homework/Extension
Angles in a Triangle 2

Developing

1. A = 80°, B = 70°, C = 50°
2. False. A and C = 70°, B = 80°
3. Hafsa is correct. The angles would add up to 210° in Chuan's triangle.

Expected

4. A = 65°, B= 65°, C = 70°
5. False. A and B = 70°, C = 65°
6. Sean is correct. The angles would add up to 140° in Steph's triangle.

Greater Depth

7. A = 62°, B= 54°, C = 56°
8. True. A, B and C = 48°
9. They are both correct. Both options would mean the angles add up to 180°