

Varied Fluency – Angles in a Triangle – Missing Angles

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](#)

Differentiation:

Developing Questions to support understanding of calculating angles on a straight line, angles around a complete rotation and vertically opposite angles. Includes angles measured to the nearest five degrees.

Expected Questions to support understanding of calculating angles on a straight line, angles around a complete rotation and vertically opposite angles. Includes angles measured to the nearest whole degree.

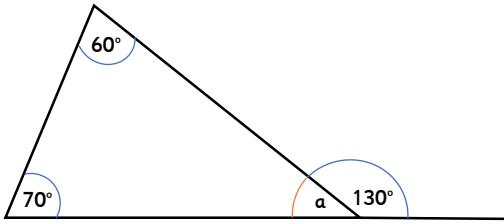
Greater Depth Questions to support understanding of calculating angles on a straight line, angles around a complete rotation and vertically opposite angles. More missing angles are included and shapes may be presented in different ways.

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

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

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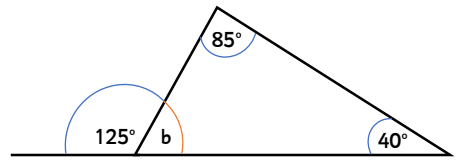
1a. Calculate the missing angle.



(Not to scale.)

VF

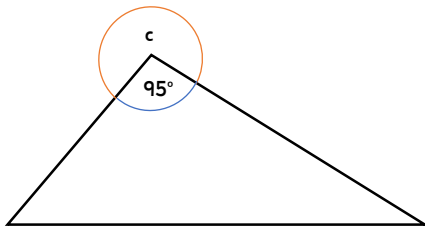
1b. Calculate the missing angle.



(Not to scale.)

VF

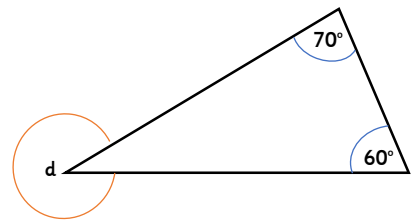
2a. Calculate the missing angle.



(Not to scale.)

VF

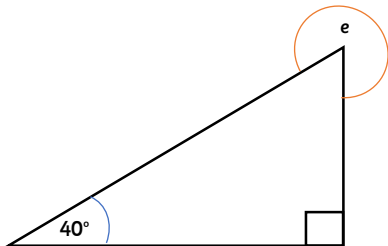
2b. Calculate the missing angle.



(Not to scale.)

VF

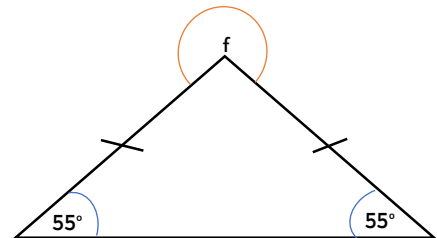
3a. Calculate the missing angle.



(Not to scale.)

VF

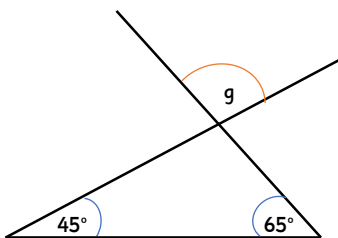
3b. Calculate the missing angle.



(Not to scale.)

VF

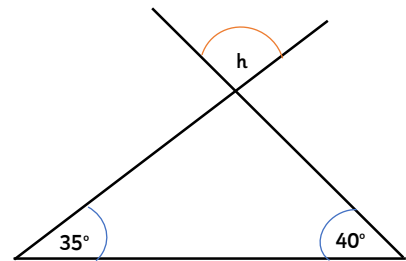
4a. Calculate the missing angle.



(Not to scale.)

VF

4b. Calculate the missing angle.



(Not to scale.)

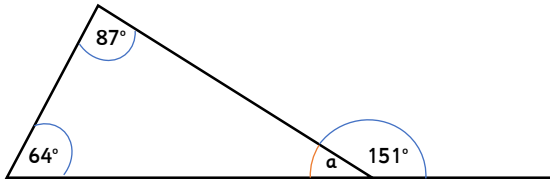
VF

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Varied Fluency – Angles in a Triangle – Missing Angles – Year 6 Developing

Varied Fluency – Angles in a Triangle – Missing Angles

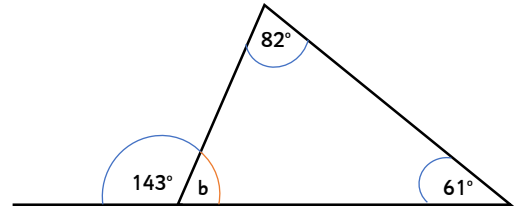
5a. Calculate the missing angle.



(Not to scale.)

VF

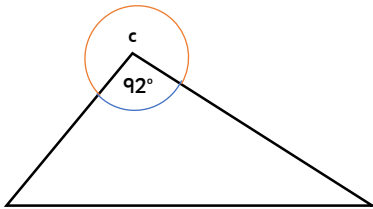
5b. Calculate the missing angle.



(Not to scale.)

VF

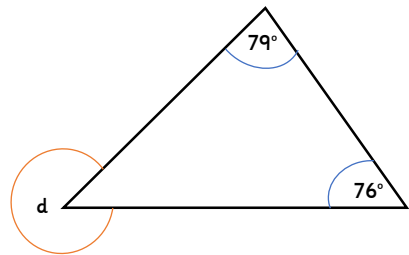
6a. Calculate the missing angle.



(Not to scale.)

VF

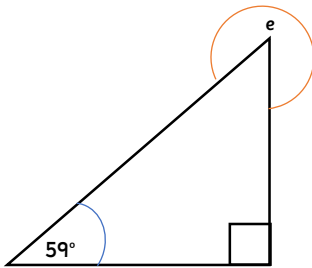
6b. Calculate the missing angle.



(Not to scale.)

VF

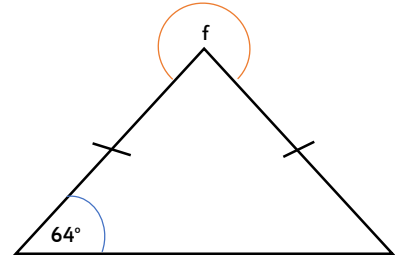
7a. Calculate the missing angle.



(Not to scale.)

VF

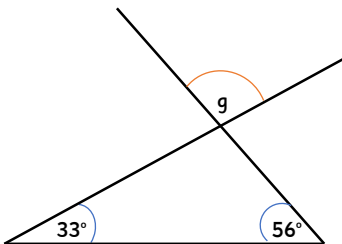
7b. Calculate the missing angle.



(Not to scale.)

VF

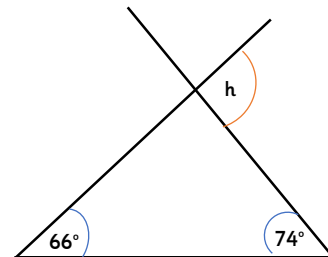
8a. Calculate the missing angle.



(Not to scale.)

VF

8b. Calculate the missing angle.

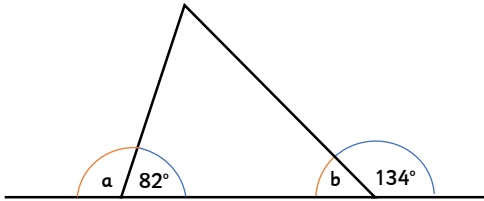


(Not to scale.)

VF

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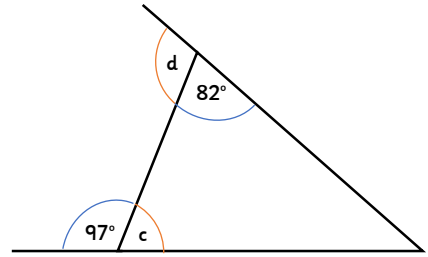
9a. Calculate the missing angle.



(Not to scale.)

VF

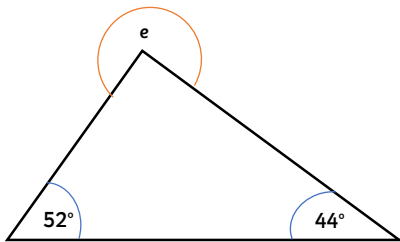
9b. Calculate the missing angle.



(Not to scale.)

VF

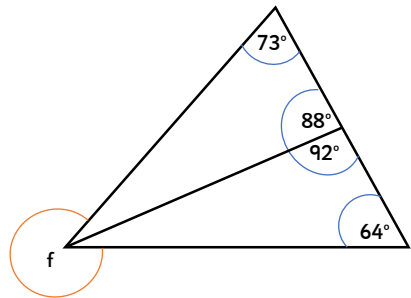
10a. Calculate the missing angle.



(Not to scale.)

VF

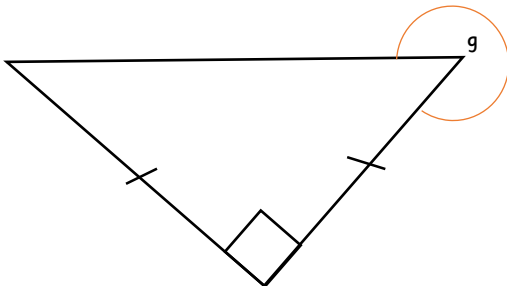
10b. Calculate the missing angle.



(Not to scale.)

VF

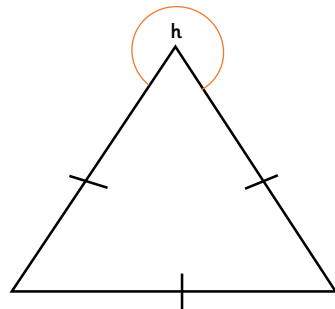
11a. Calculate the missing angle.



(Not to scale.)

VF

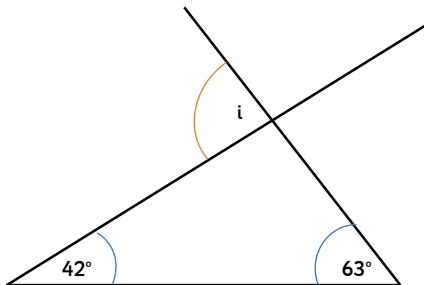
11b. Calculate the missing angle.



(Not to scale.)

VF

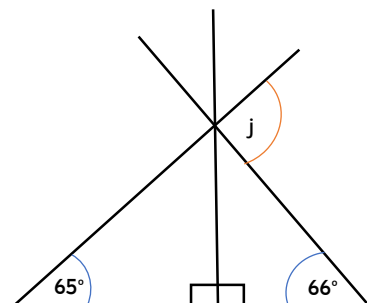
12a. Calculate the missing angle.



(Not to scale.)

VF

12b. Calculate the missing angle.



(Not to scale.)

VF

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Varied Fluency – Angles in a Triangle – Missing Angles

Developing

- 1a. Angle $a = 50^\circ$
- 1b. Angle $b = 55^\circ$
- 2a. Angle $c = 265^\circ$
- 2b. Angle $d = 310^\circ$
- 3a. Angle $e = 310^\circ$
- 3b. Angle $f = 290^\circ$
- 4a. Angle $g = 70^\circ$
- 4b. Angle $h = 105^\circ$

Expected

- 5a. Angle $a = 29^\circ$
- 5b. Angle $b = 37^\circ$
- 6a. Angle $c = 268^\circ$
- 6b. Angle $d = 335^\circ$
- 7a. Angle $e = 329^\circ$
- 7b. Angle $f = 308^\circ$
- 8a. Angle $g = 91^\circ$
- 8b. Angle $h = 140^\circ$

Greater Depth

- 9a. Angle $a = 98^\circ$, angle $b = 46^\circ$
- 9b. Angle $c = 83^\circ$, angle $d = 98^\circ$
- 10a. Angle $e = 276^\circ$
- 10b. Angle $f = 317^\circ$
- 11a. Angle $g = 315^\circ$
- 11b. Angle $h = 300^\circ$
- 12a. Angle $i = 105^\circ$
- 12b. Angle $j = 131^\circ$