MATHS 11+

Missing Angles

Name: Date:

Watch the video first: search **Elizabeth Rose Tutoring** on YouTube – "Missing Angles".

Remember

1. Angles on a straight line add up to **180°**.
2. Angles around a point add up to **360°**.
3. A right angle is **90°**.
4. The angles inside a triangle add up to **180°**.

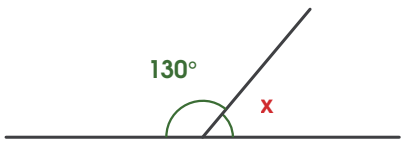
Worked example

Two angles on a straight line: one is 115°. 180° − 115° = **65°** Check: 65° + 115° = 180° ✓

Diagrams are not drawn to scale.

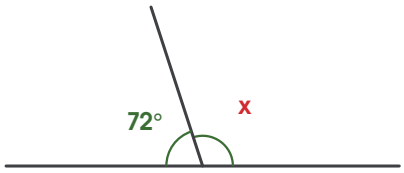
Your turn

1 Find x.



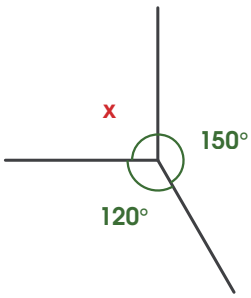
Answer: .....

2 Find x.



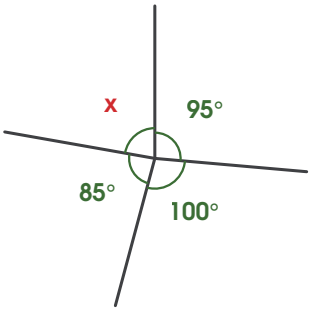
Answer: .....

3 Find x.



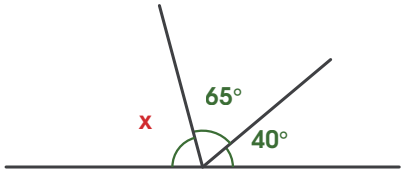
Answer: .....

4 Find x.



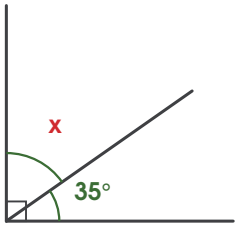
Answer: .....

5 Find x.



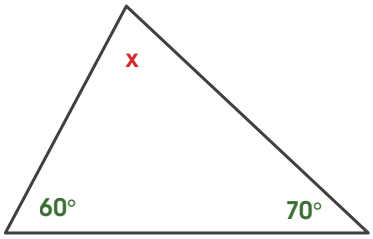
Answer: .....

6 Find x.



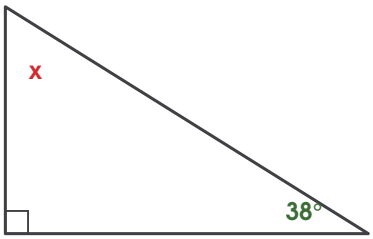
Answer: .....

7 Find x.



Answer: .....

8 Find x.



Answer: .....

Challenge

C1 An isosceles triangle has two equal angles. The other angle is 40°. What size is each of the equal angles?

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C2 Four equal angles meet at a point. What size is each angle?

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Well done! Check your answers with a grown-up.

Elizabeth Rose tutoring

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Answers: Missing Angles

For parents and tutors. You may want to print this page separately.

1	50° (180 – 130)
2	108° (180 – 72)
3	90° (360 – 150 – 120)
4	80° (360 – 280)
5	75° (180 – 40 – 65)
6	55° (90 – 35)
7	50° (180 – 60 – 70)
8	52° (180 – 90 – 38)
C1	70° each (180 – 40 = 140, 140 ÷ 2 = 70)
C2	90° each (360 ÷ 4)

Diagrams are not drawn to scale.