

Test a triangle for a right angle

NAME	DATE	SCORE / 10
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1 A triangle has sides of 15 centimetres, 8 centimetres and 17 centimetres. Is the triangle a right triangle?

☐ Yes ☐ No

2 Which three lengths could be the side lengths of a right triangle?

☐ 10 metres, 7 metres and 8 metres ☐ 5 metres, 4 metres and 6 metres
☐ 6 metres, 8 metres and 10 metres ☐ 9 metres, 13 metres and 15 metres

3 Which of these sets of side lengths make a right triangle?

Tick every answer that is true.

- ☐ **A** 8, 15, 17
☐ **B** 5, 12, 14
☐ **C** 9, 12, 15
☐ **D** 7, 8, 10
☐ **E** 2, 3, 4

4 A triangle has sides of 16 m, 8 m and 15 m. Is the triangle a right triangle?

☐ Yes ☐ No

5 Which three lengths could be the side lengths of a right triangle?

☐ 15 cm, 9 cm and 13 cm ☐ 15 cm, 12 cm and 10 cm ☐ 4 cm, 6 cm and 5 cm
☐ 16 cm, 12 cm and 20 cm

6 Which of these sets of side lengths make a right triangle?

Tick every answer that is true.

- ☐ **A** 6, 8, 10
 - ☐ **B** 6, 8, 9
 - ☐ **C** 5, 6, 7
 - ☐ **D** 8, 15, 17
 - ☐ **E** 7, 24, 25
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7 A triangle has sides of 25 cm, 15 cm and 20 cm. Is the triangle a right triangle?

- ☐ Yes ☐ No
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8 Which three lengths could be the side lengths of a right triangle?

- ☐ 20 m, 15 m and 25 m ☐ 7 m, 6 m and 8 m ☐ 13 m, 12 m and 14 m
☐ 27 m, 24 m and 10 m
-

9 A triangle has sides of 15 metres, 25 metres and 20 metres. Is the triangle a right triangle?

- ☐ Yes ☐ No
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10 A triangle has sides of 3 cm, 5 cm and 4 cm. Is the triangle a right triangle?

- ☐ Yes ☐ No

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1 Yes

3 A, C

Tick exactly these: A: 8, 15, 17; C: 9, 12, 15. One missed or one extra is wrong.

5 16 cm, 12 cm and 20 cm

7 Yes

9 Yes

2 6 metres, 8 metres and 10 metres

4 No

6 A, D, E

Tick exactly these: A: 6, 8, 10; D: 8, 15, 17; E: 7, 24, 25. One missed or one extra is wrong.

8 20 m, 15 m and 25 m

10 Yes