

Test a triangle for a right angle

NAME	DATE	SCORE / 10
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1 A triangle has sides of 7 centimetres, 26 centimetres and 24 centimetres. Is the triangle a right triangle?

☐ Yes ☐ No

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

☐ 16 m, 12 m and 21 m ☐ 9 m, 7 m and 8 m ☐ 14 m, 12 m and 13 m ☐ 5 m, 3 m and 4 m

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

Tick every answer that is true.

☐ **A** 12, 16, 20

☐ **B** 2, 3, 4

☐ **C** 7, 8, 10

☐ **D** 3, 4, 5

☐ **E** 5, 12, 13

4 A triangle has sides of 20 centimetres, 29 centimetres and 21 centimetres. Is the triangle a right triangle?

☐ Yes ☐ No

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

☐ 12 m, 13 m and 5 m ☐ 9 m, 15 m and 13 m ☐ 6 m, 7 m and 5 m

☐ 13 m, 11 m and 12 m

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

Tick every answer that is true.

- ☐ **A** 7, 8, 10
 - ☐ **B** 12, 16, 20
 - ☐ **C** 9, 12, 15
 - ☐ **D** 4, 5, 6
 - ☐ **E** 5, 12, 13
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7 A triangle has sides of 8 metres, 10 metres and 6 metres. 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?

- ☐ 5 centimetres, 14 centimetres and 12 centimetres
 - ☐ 26 centimetres, 7 centimetres and 24 centimetres
 - ☐ 24 centimetres, 26 centimetres and 11 centimetres
 - ☐ 20 centimetres, 16 centimetres and 12 centimetres
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9 A triangle has sides of 5 m, 12 m and 14 m. Is the triangle a right triangle?

- ☐ Yes ☐ No
-

10 A triangle has sides of 12 cm, 20 cm and 16 cm. Is the triangle a right triangle?

- ☐ Yes ☐ No

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1 No

3 A, D, E

Tick exactly these: A: 12, 16, 20; D: 3, 4, 5; E: 5, 12, 13. One missed or one extra is wrong.

5 12 m, 13 m and 5 m

7 Yes

9 No

2 5 m, 3 m and 4 m

4 Yes

6 B, C, E

Tick exactly these: B: 12, 16, 20; C: 9, 12, 15; E: 5, 12, 13. One missed or one extra is wrong.

8 20 centimetres, 16 centimetres and 12 centimetres

10 Yes