

Find an unknown height from the area of a triangle

NAME	DATE	SCORE / 10
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- 1** A triangle has an area of 78 square metres. The base of the triangle is 12 metres. What is the perpendicular height, in metres, of the triangle?

- 2** A triangle has an area of 12 square metres. The base of the triangle is 3 metres. Leo says the perpendicular height is 8 metres. Is Leo right?

☐ No: the height is 4 metres
 ☐ No: the height is 24 metres
 ☐ Yes: the height is 8 metres

- 3** A parallelogram has an area of 176 square centimetres. The base of the parallelogram is 16 centimetres. What is the perpendicular height, in centimetres, of the parallelogram?

- 4** A parallelogram has an area of 28 square centimetres. The base of the parallelogram is 7 centimetres. Maya says the perpendicular height is 8 centimetres. Is Maya right?

☐ No: the height is 2 centimetres
 ☐ No: the height is 4 centimetres
 ☐ Yes: the height is 8 centimetres

- 5** A parallelogram has an area of 40 square metres. The base of the parallelogram is 10 metres. What is the perpendicular height, in metres, of the parallelogram?

6

A triangle has an area of 30 square metres. The base of the triangle is 5 metres. Ben says the perpendicular height is 60 metres. Is Ben right?

☐ Yes: the height is 60 metres ☐ No: the height is 6 metres ☐ No: the height is 12 metres

7

A triangle has an area of 65 square centimetres. The base of the triangle is 10 centimetres. What is the perpendicular height, in centimetres, of the triangle?

8

A parallelogram has an area of 60 square metres. The base of the parallelogram is 5 metres. Ben says the perpendicular height is 12 metres. Is Ben right?

☐ No: the height is 6 metres ☐ Yes: the height is 12 metres ☐ No: the height is 24 metres

9

A sail is a triangle with an area of 40 square metres. The base of the sail is 10 metres. What is the perpendicular height, in metres, of the sail?

10

A triangle has an area of 30 square metres. The base of the triangle is 5 metres. Dev says the perpendicular height is 60 metres. Is Dev right?

☐ No: the height is 12 metres ☐ Yes: the height is 60 metres ☐ No: the height is 6 metres

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1 13

3 11

5 4

7 13

9 8

2 Yes: the height is 8 metres

4 No: the height is 4 centimetres

6 No: the height is 12 metres

8 Yes: the height is 12 metres

10 No: the height is 12 metres