

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 39 square metres. The base of the triangle is 13 metres. What is the perpendicular height, in metres, of the triangle?

- 2** A triangle has an area of 42 square centimetres. The base of the triangle is 6 centimetres. Dev says the perpendicular height is 7 centimetres. Is Dev right?

- ☐ No: the height is 84 centimetres ☐ No: the height is 14 centimetres
☐ Yes: the height is 7 centimetres

- 3** A triangle has an area of 54 square centimetres. The base of the triangle is 12 centimetres. What is the perpendicular height, in centimetres, of the triangle?

- 4** A triangle has an area of 60 square centimetres. The base of the triangle is 10 centimetres. Ana says the perpendicular height is 12 centimetres. Is Ana right?

- ☐ No: the height is 6 centimetres ☐ Yes: the height is 12 centimetres
☐ No: the height is 120 centimetres

- 5** A parallelogram has an area of 160 square metres. The base of the parallelogram is 16 metres. What is the perpendicular height, in metres, of the parallelogram?

6 A parallelogram has an area of 168 square metres. The base of the parallelogram is 12 metres. Ben says the perpendicular height is 7 metres. Is Ben right?

- ☐ Yes: the height is 7 metres ☐ No: the height is 14 metres ☐ No: the height is 28 metres
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7 A sail is a triangle with an area of 52 square metres. The base of the sail is 13 metres. What is the perpendicular height, in metres, of the sail?

8 A parallelogram has an area of 80 square centimetres. The base of the parallelogram is 8 centimetres. Leo says the perpendicular height is 5 centimetres. Is Leo right?

- ☐ No: the height is 10 centimetres ☐ No: the height is 20 centimetres
☐ Yes: the height is 5 centimetres
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9 A parallelogram has an area of 21 square centimetres. The base of the parallelogram is 3 centimetres. What is the perpendicular height, in centimetres, of the parallelogram?

10 A triangle has an area of 40 square metres. The base of the triangle is 8 metres. Ben says the perpendicular height is 80 metres. Is Ben right?

- ☐ Yes: the height is 80 metres ☐ No: the height is 10 metres ☐ No: the height is 5 metres

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1 6

3 9

5 10

7 8

9 7

2 No: the height is 14 centimetres

4 Yes: the height is 12 centimetres

6 No: the height is 14 metres

8 No: the height is 10 centimetres

10 No: the height is 10 metres