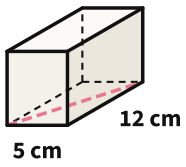
Pythagoras in 3D

Exit ticket ANSWERS Name _____

1 Find the length of the diagonal of the base of the cuboid.

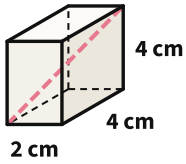


13 cm

2 The diagonal of the base of a cuboid is 20 cm. The height of the cuboid is 21 cm. Find the length of the diagonal of the cuboid.

29 cm

3 Find the length of the diagonal of the cuboid.



6 cm

The Maths Habit

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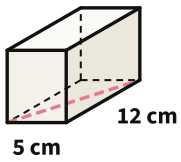

13 cm

TESTS The diagonal of the base: one right-angled triangle

LOOK FOR

17 cm added the two lengths: square them, add, then square root

10.9 cm subtracted the squares: the diagonal is the hypotenuse, so add

FIX IT

A cuboid is 8 cm by 15 cm by 4 cm. Find the length of the diagonal of its base. *17 cm*

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2 **The diagonal of the base of a cuboid is 20 cm. The height of the cuboid is 21 cm. Find the length of the diagonal of the cuboid.**

29 cm

TESTS The triangle standing up: the base diagonal and the height

LOOK FOR

41 cm added the base and the height: use Pythagoras for this triangle too

6.4 cm subtracted the squares: the diagonal of the cuboid is the hypotenuse

FIX IT

The diagonal of the base of a cuboid is 12 cm and its height is 9 cm. Find the length of the diagonal of the cuboid. *15 cm*

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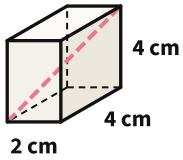
3 **Find the length of the diagonal of the cuboid.**



6 cm

TESTS Both steps: base^2 kept, then the triangle standing up

LOOK FOR

10 cm added the three lengths: square each, add, then square root

4.5 cm stopped at the diagonal of the base: add the height squared to base^2

FIX IT

A cuboid is 1 cm by 2 cm by 2 cm. Find the length of its diagonal. *3 cm*