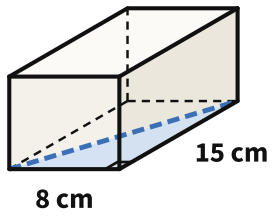
Pythagoras in 3D *lesson handout*

We do

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



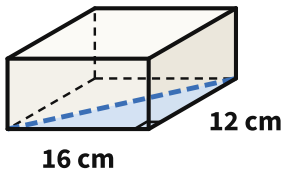
base^2 = 8^2 + 15^2

base^2 = ☐

base = √☐ = ☐ cm

You do

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



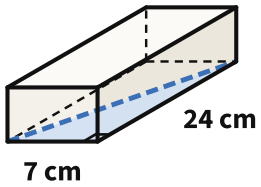
base^2 = ☐^{2} + ☐^{2}

base^2 = ☐

base = √☐ = ☐ cm

You do

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



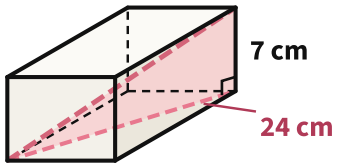
base^2 = ☐^{2} + ☐^{2}

base^2 = ☐

base = √☐ = ☐ cm

We do

The diagonal of the base is 24 cm. Find the length of the diagonal of the cuboid.



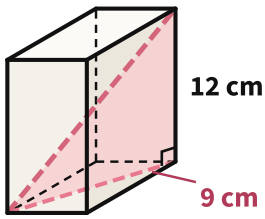
diagonal^2 = 24^2 + 7^2

diagonal^2 = ☐

diagonal = √☐ = ☐ cm

You do

The diagonal of the base is 9 cm. Find the length of the diagonal of the cuboid.



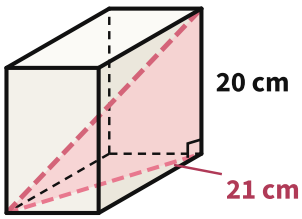
diagonal^2 = ☐^{2} + ☐^{2}

diagonal^2 = ☐

diagonal = √☐ = ☐ cm

You do

The diagonal of the base is 21 cm. Find the length of the diagonal of the cuboid.



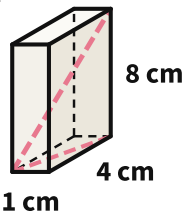
diagonal^2 = ☐^{2} + ☐^{2}

diagonal^2 = ☐

diagonal = √☐ = ☐ cm

We do

Find the length of the diagonal of the cuboid.



base^2 = 1^2 + 4^2

base^2 = 17

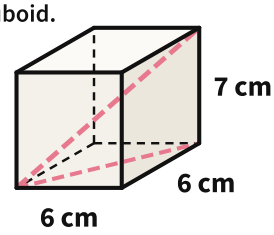
diagonal^2 = ☐ + ☐^{2}

diagonal^2 = ☐

diagonal = √☐ = ☐ cm

You do

Find the length of the diagonal of the cuboid.



base^2 = ☐^{2} + ☐^{2}

base^2 = ☐

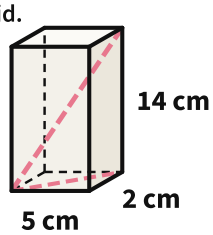
diagonal^2 = ☐ + ☐^{2}

diagonal^2 = ☐

diagonal = √☐ = ☐ cm

You do

Find the length of the diagonal of the cuboid.



base^2 = ☐^{2} + ☐^{2}

base^2 = ☐

diagonal^2 = ☐ + ☐^{2}

diagonal^2 = ☐

diagonal = √☐ = ☐ cm