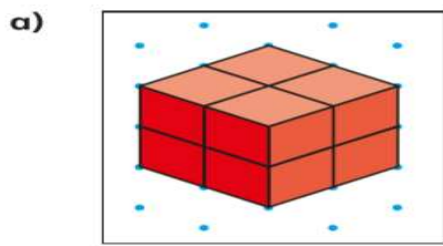


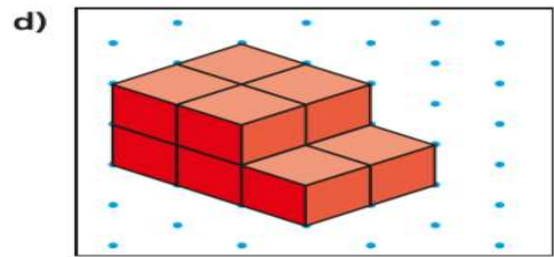
This week we are revising perimeter, area and volume

LO: To calculate the volume (Bronze).

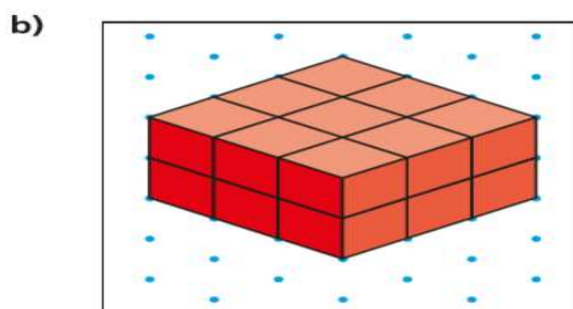
1) How many cubes are needed to make the following shapes?



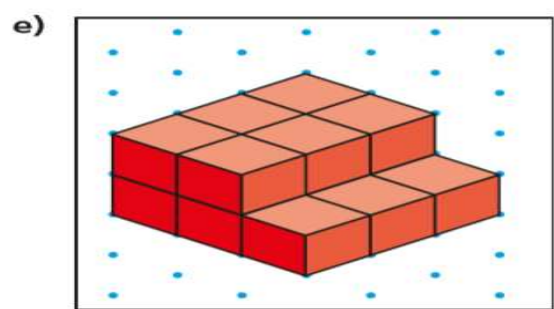
cubes



cubes

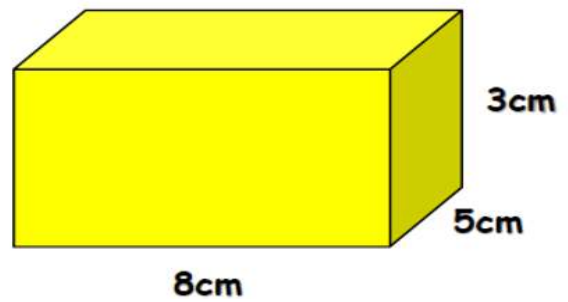
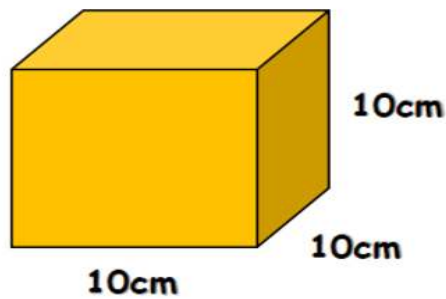


cubes



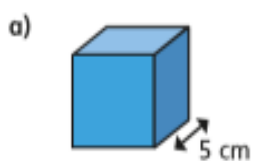
cubes

2) Calculate the volume of these shapes

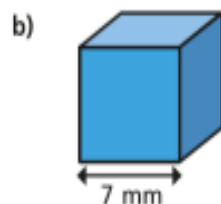


3)

Calculate the volumes of the cubes.



volume = cm^3

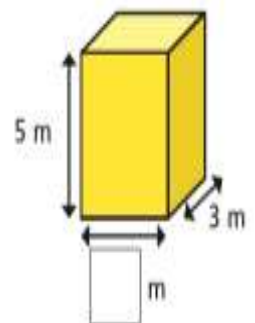


volume = mm^3

4)

The volume of the cuboid is 60 m^3

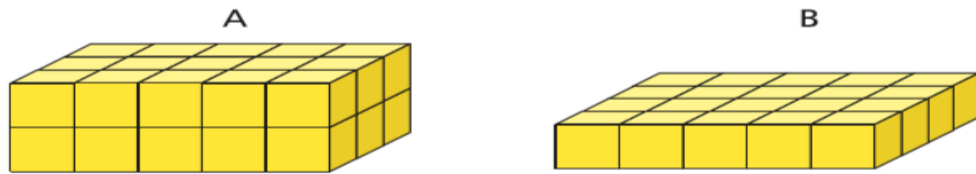
Find the missing length.



This week we are revising perimeter, area and volume

LO: To calculate the volume (Silver).

1) Here are two cuboids made of 1 cm^3 cubes.



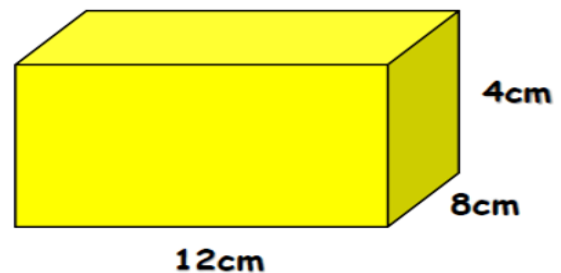
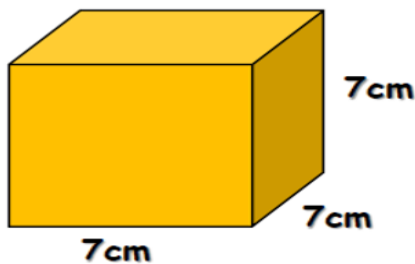
Which shape has the greater volume? _____

Show all your working to prove your answer.

2) Hannah is making cuboids using 24 cubes. How many different cuboids can she make?

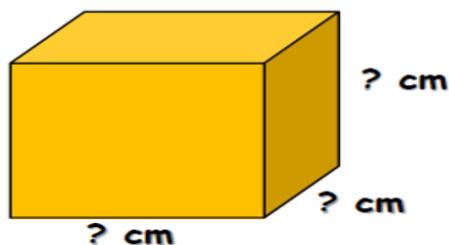
Show your different cuboids using volume = length \times width \times height.

3) Calculate the volume of these cuboids

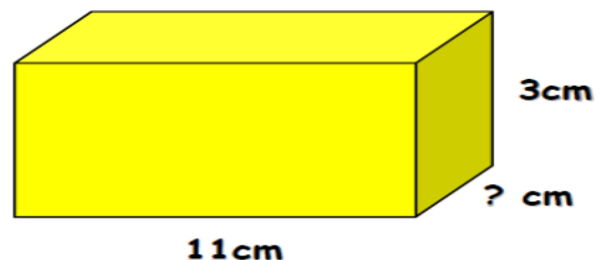


4) Find the missing lengths from the information available.

Volume = 512



Volume = 165



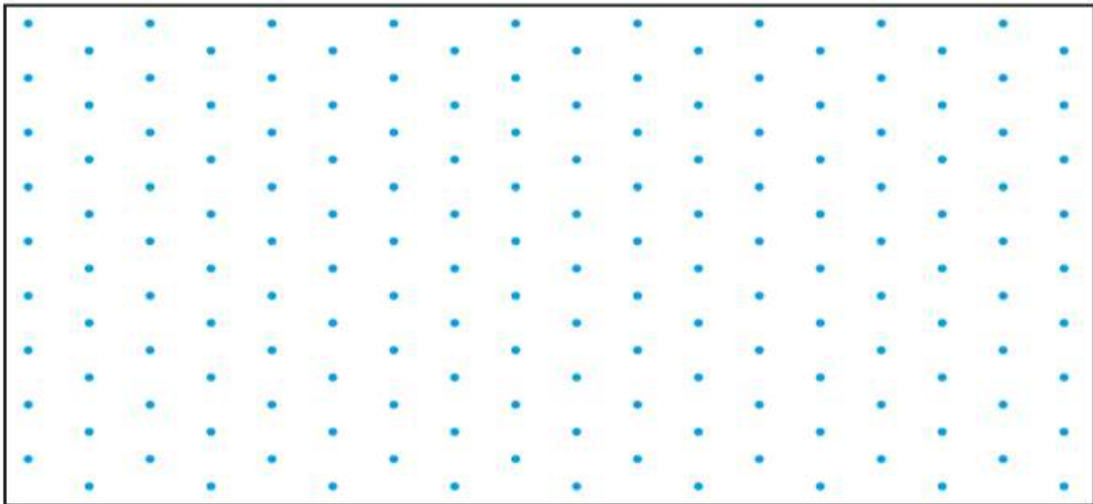
5) A box of matches measures 1cm by 4cm by 5cm. Boxes of matches are placed in a cardboard box measuring 15cm by 32cm by 40cm. How many boxes of matches fit into a cardboard box?

This week we are revising perimeter, area and volume

LO: To calculate the volume (Gold).

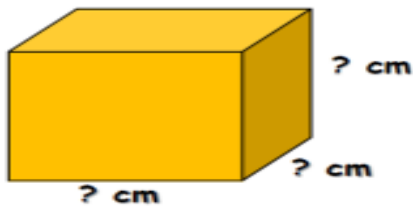
1) A shape has a volume of 24 cm^3

Make two possible shapes from cubes and then draw them.

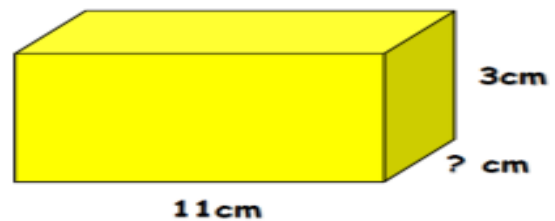


2) Find the missing lengths from the information available.

Volume = 512

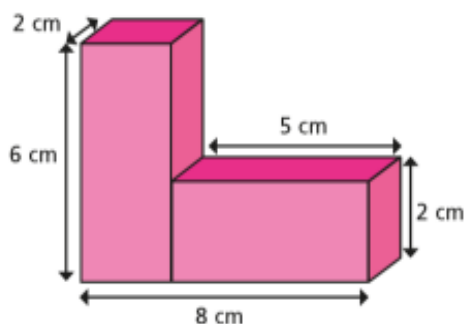


Volume = 165

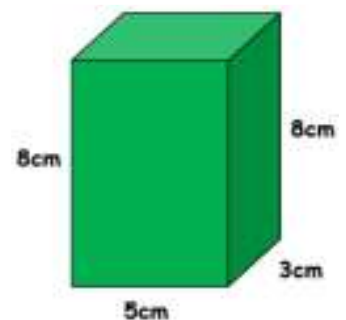


3) A book is 19cm wide, 26cm long and 2.5cm thick. There are 8 similar books placed on top of each other. What is the volume taken up by them?

4) Calculate the total volume of the shape.



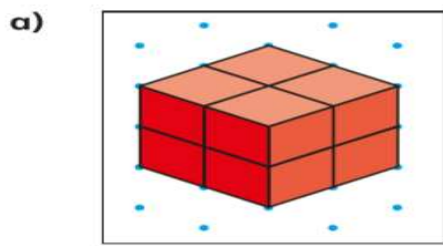
5) Sarah is calculating the volume of this cuboid: She has written the answer 960 cm^3 . Can you work out the correct answer and explain where she went wrong.



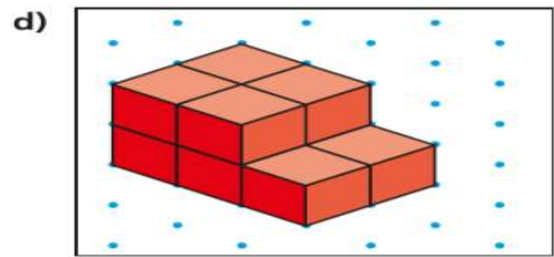
This week we are revising perimeter, area and volume

LO: To calculate the volume (Bronze) - answers

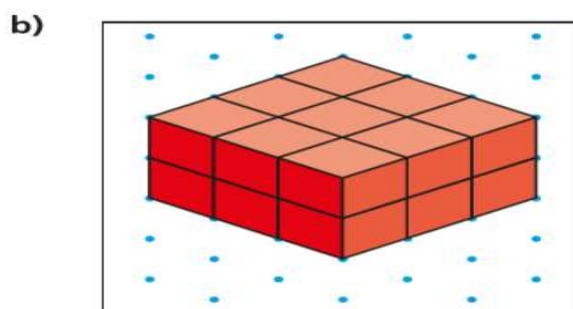
1) How many cubes are needed to make the following shapes?



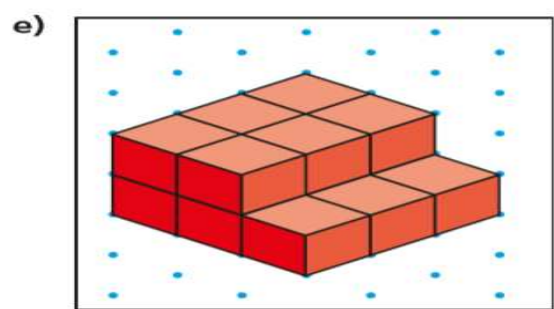
cubes



cubes

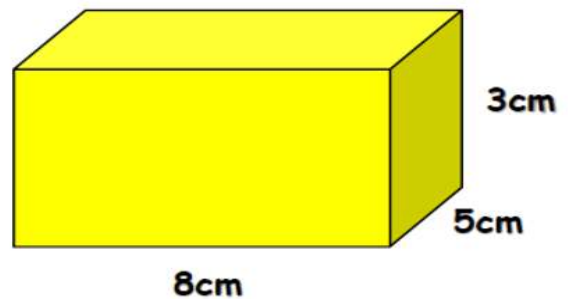
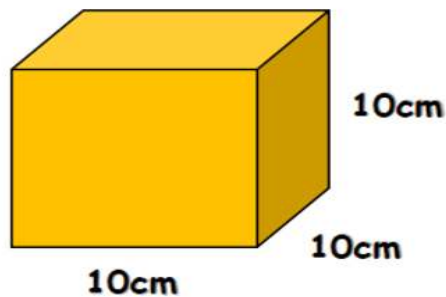


cubes



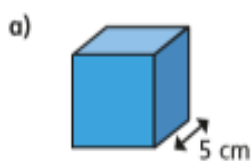
cubes

2) Calculate the volume of these shapes

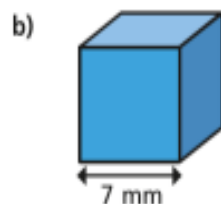


3)

Calculate the volumes of the cubes.



volume = cm³

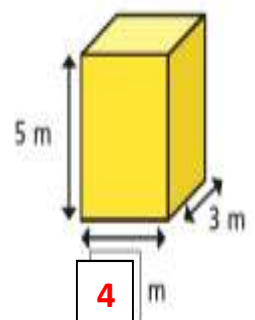


volume = mm³

4)

The volume of the cuboid is 60 m³

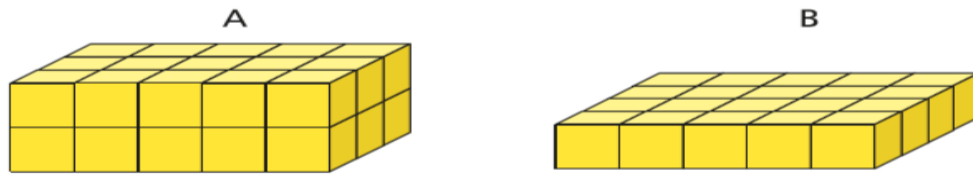
Find the missing length.



This week we are revising perimeter, area and volume

LO: To calculate the volume (Silver) - answers

1) Here are two cuboids made of 1 cm³ cubes.



Which shape has the greater volume? A

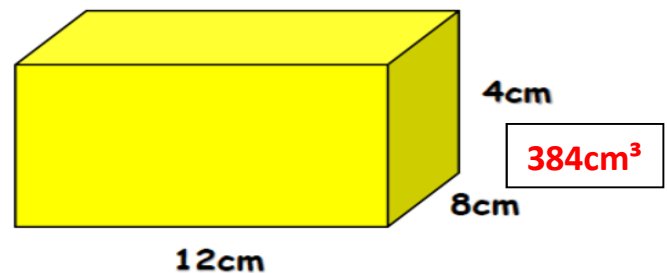
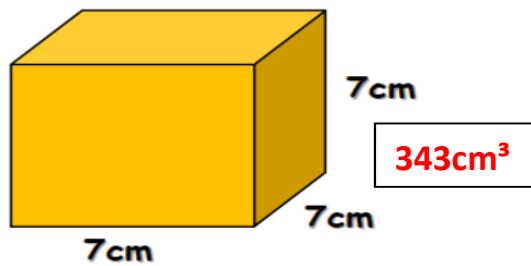
Show all your working to prove your answer. $2 \times 4 \times 3 = 24$

2) Hannah is making cuboids using 24 cubes. How many different cuboids can she make?

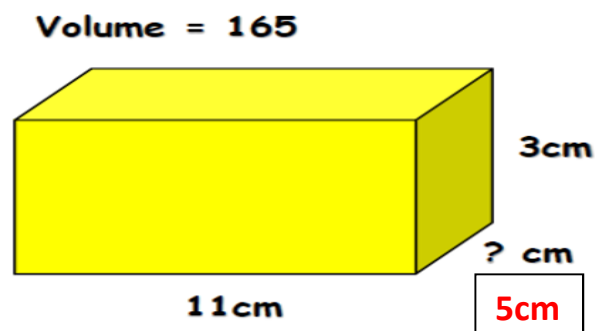
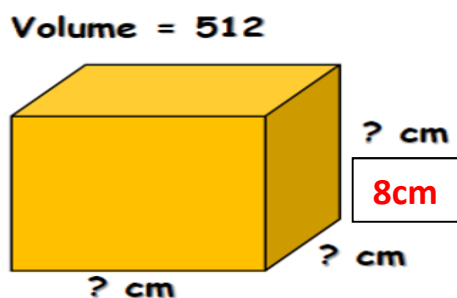
Show your different cuboids using volume = length x width x height.

Answers will vary

3) Calculate the volume of these cuboids



4) Find the missing lengths from the information available.



5) A box of matches measures 1cm by 4cm by 5cm. Boxes of matches are placed in a cardboard box measuring 15cm by 32cm by 40cm. How many boxes of matches fit into a cardboard box?

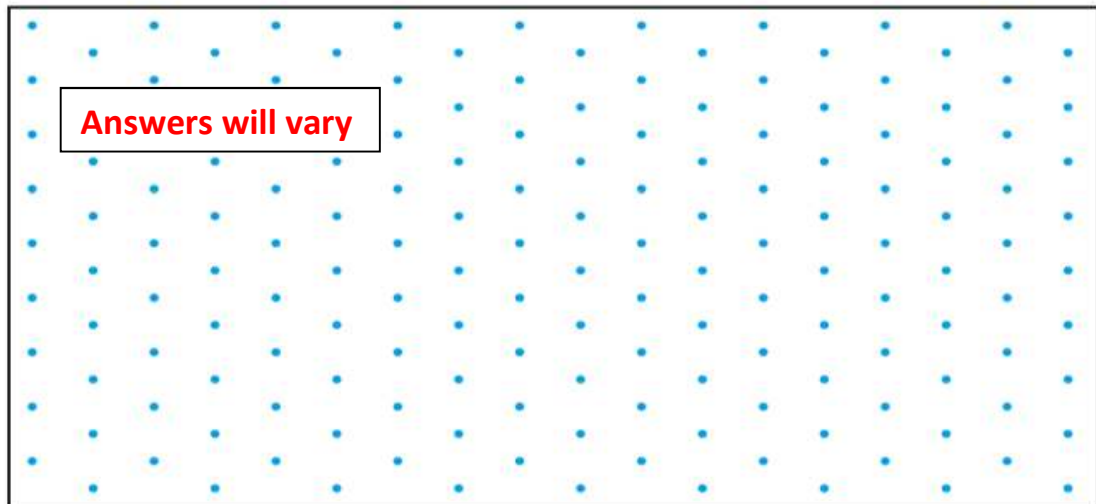
960

This week we are revising perimeter, area and volume

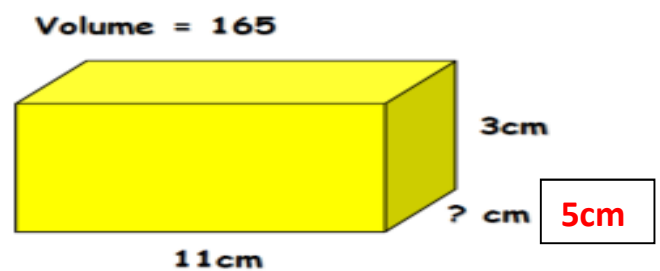
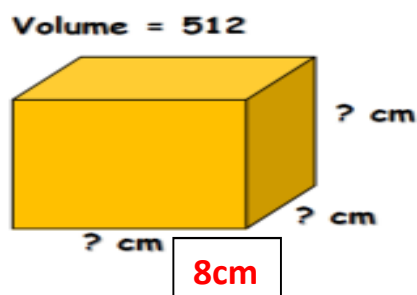
LO: To calculate the volume (Gold) - answers

1) A shape has a volume of 24 cm^3

Make two possible shapes from cubes and then draw them.



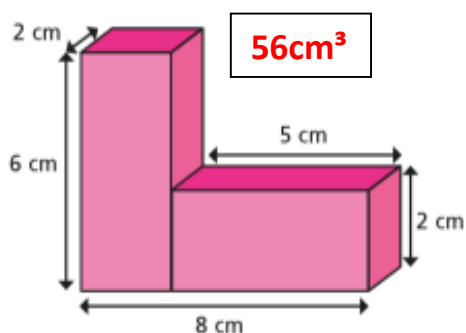
2) Find the missing lengths from the information available.



3) A book is 19cm wide, 26cm long and 2.5cm thick. There are 8 similar books placed on top of each other. What is the volume taken up by them?

9880cm³

4) Calculate the total volume of the shape.



5) Sarah is calculating the volume of this cuboid: She has written the answer 960 cm^3 . Can you work out the correct answer and explain where she went wrong.

120cm³ because...

