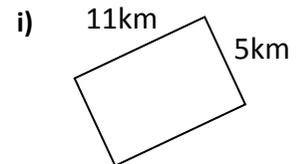
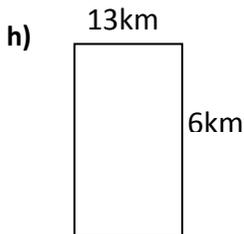
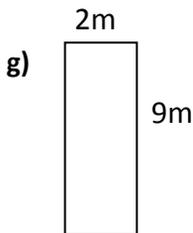
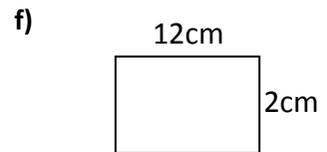
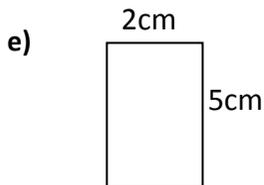
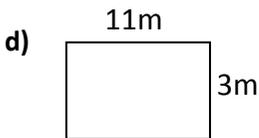
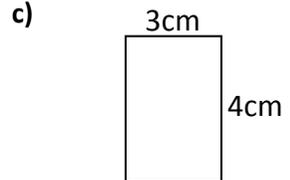
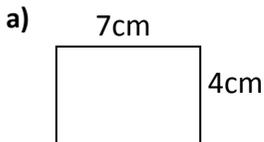


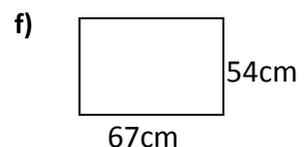
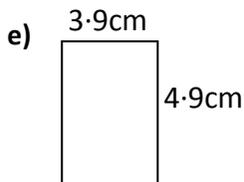
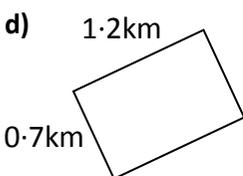
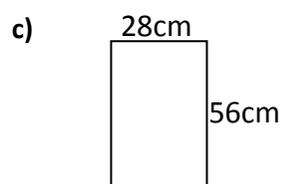
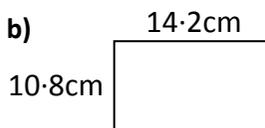
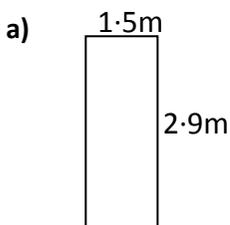
Perimeter

Exercise 1

1) Work out the perimeter of the following rectangles (no calculator)

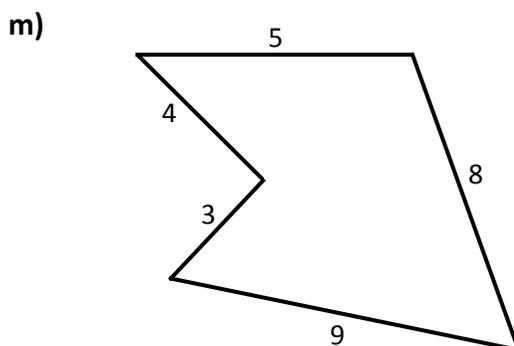
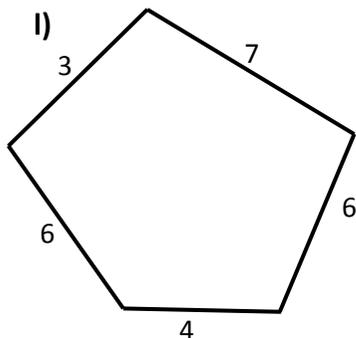
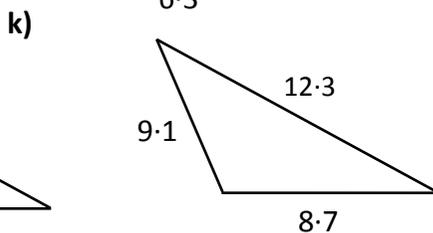
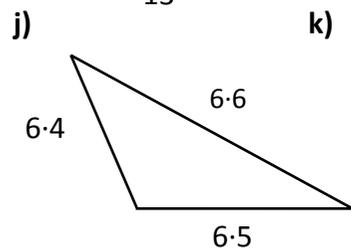
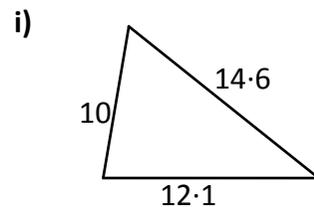
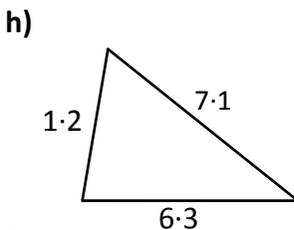
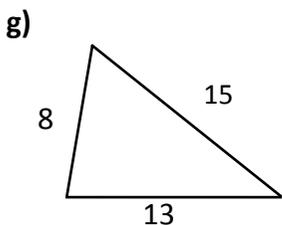
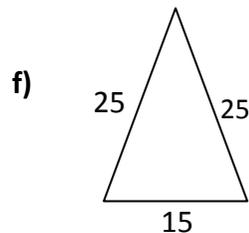
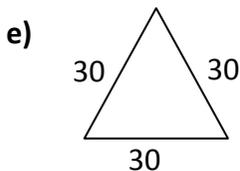
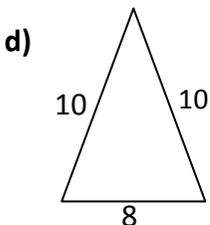
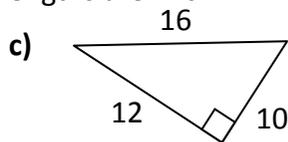
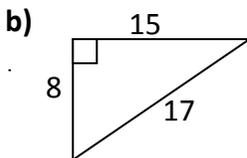
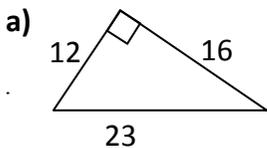


2) Work out the perimeter of these rectangles (calculator)



Exercise 2

Find the perimeter of each of the shapes below, all lengths are in cm:



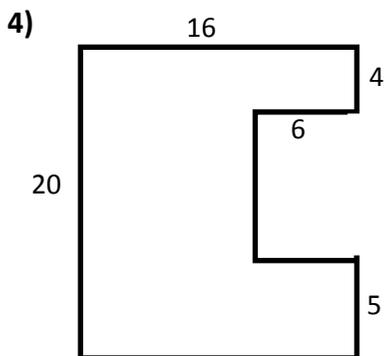
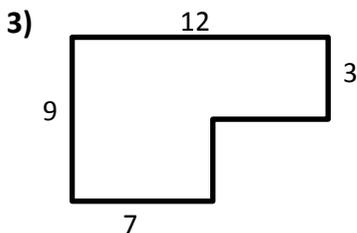
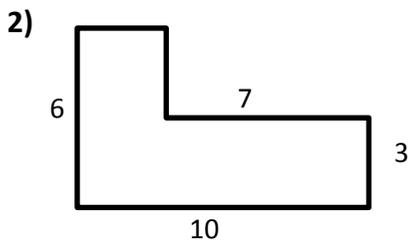
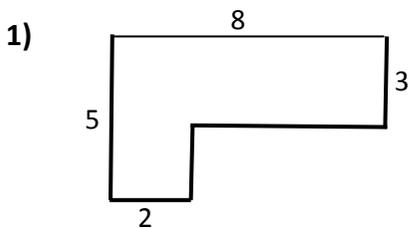
Exercise 3

Find the perimeter of each of the following shapes:

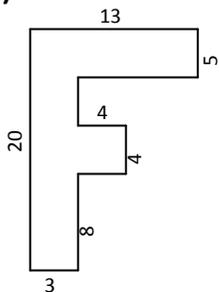
- 1) A rectangle measuring 5 cm by 3 cm
- 2) A rectangle measuring 9 cm by 4 cm
- 3) A triangle with sides 5 cm, 9 cm and 10 cm
- 4) An equilateral triangle with sides 4 cm
- 5) A regular hexagon with sides 8 cm.

Exercise 4

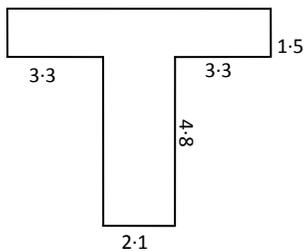
Work out the perimeter of these shapes (lengths are in cm)



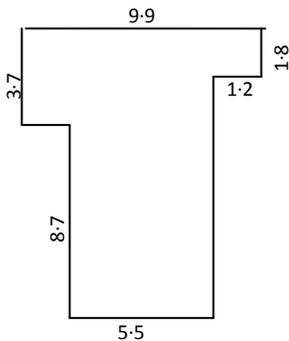
5)



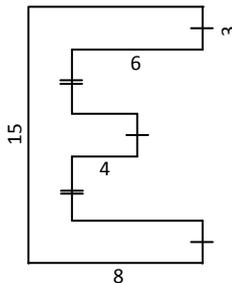
6)



7)



8)

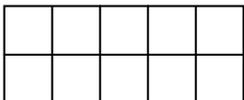


Area

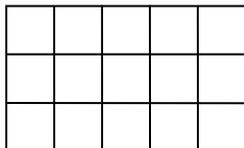
Exercise 1

1) Count the number of squares in each of the following to find the area of the rectangles.

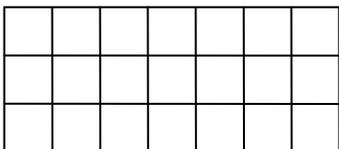
a)



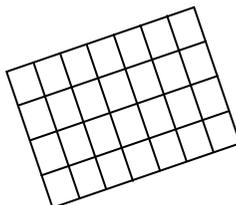
b)



c)

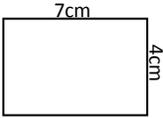


d)

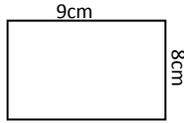


2) Work out the area of the following rectangles (do not use a calculator)

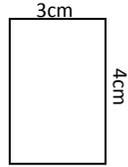
a)



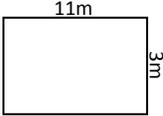
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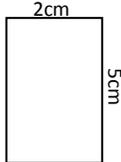
c)



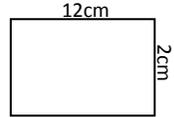
d)



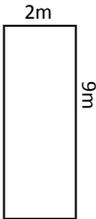
e)



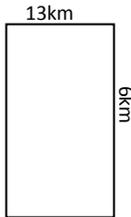
f)



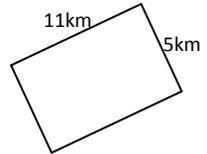
g)



h)



i)

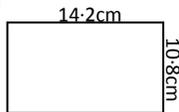


3) Work out the area of these rectangles (you may use a calculator)

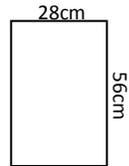
a)



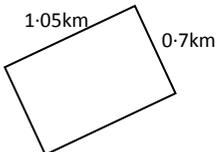
b)



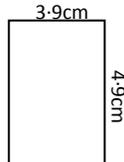
c)



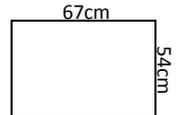
d)



e)



f)

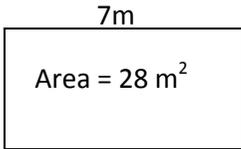


4) Work out the area of the following squares and rectangles (remember to include units in your answer)

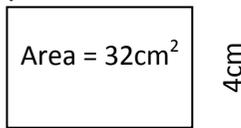
- a) 4cm by 8cm b) 9cm by 7cm c) 2.5m by 2.5m
d) 3.6km by 5km e) 24cm by 16cm f) 1.25m by 1.25m
g) 100m by 3.2m h) 4.9m by 97.2cm i) 6mm by 7.2m

5) Find the length or breadth of these rectangles:

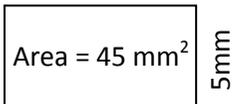
a)



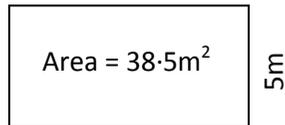
b)



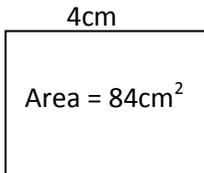
c)



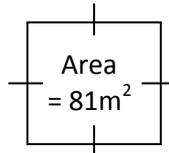
d)



e)

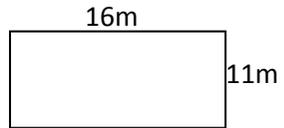


f)



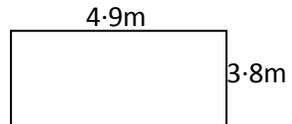
Exercise 2

- 1) Anna has a rectangular piece of grass in her garden. She wishes to turf it at a cost of **£1.65 per m^2** .



Find the cost of turfing her garden.

- 2) Ross decides to paint one wall of his bedroom blue.



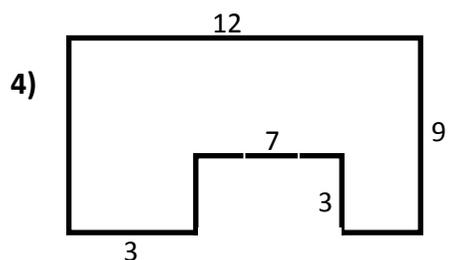
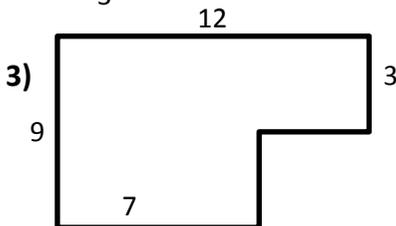
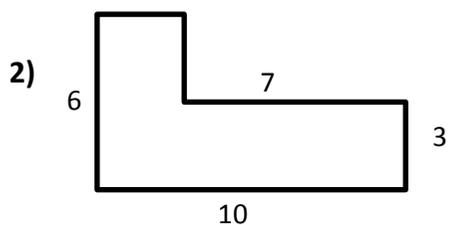
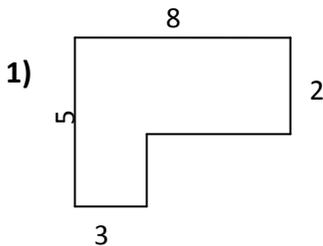
One tin of paint covers $8m^2$.

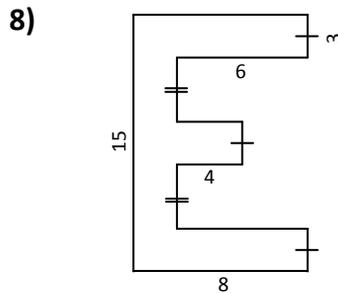
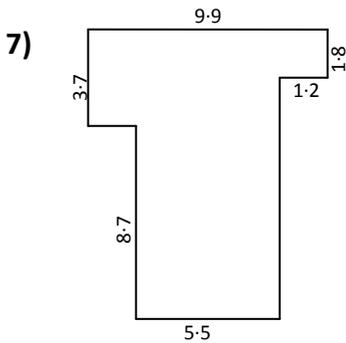
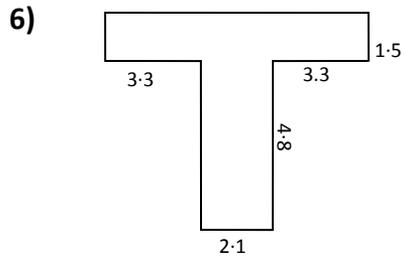
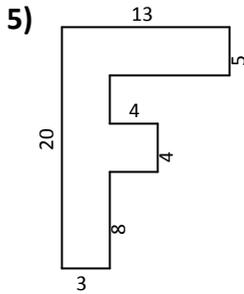
How many tins will he need?

If a tin costs £10.65 how much will it cost him?

Exercise 3

Find the area of the following shapes, all lengths are in metres.

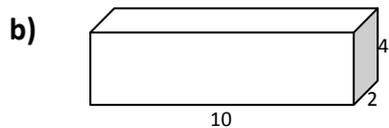
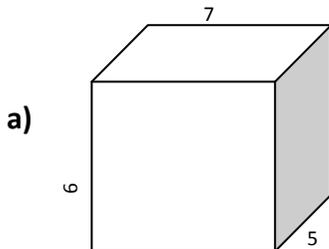


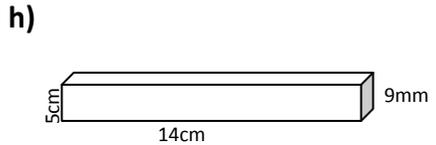
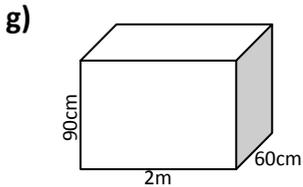
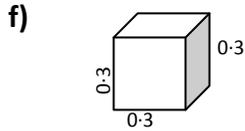
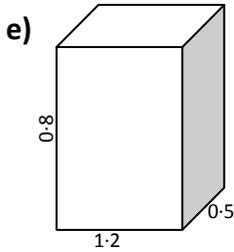
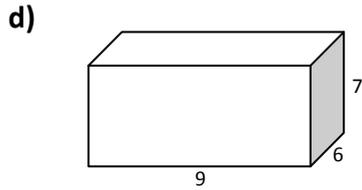
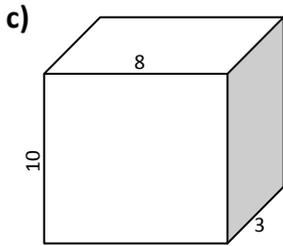


Volume

Exercise 1

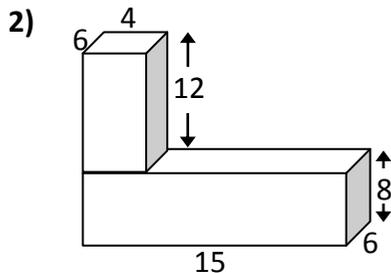
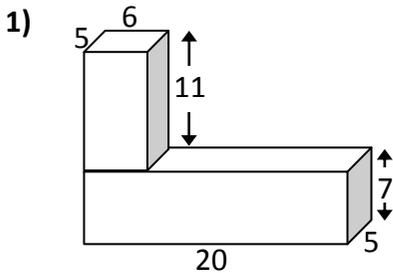
- 1) Find the volume of these cubes or cuboids (all lengths are in metres unless otherwise stated)



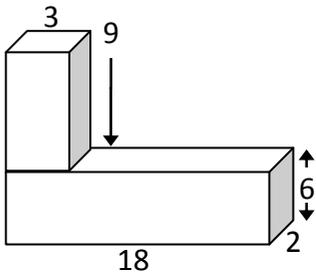


Exercise 2 (remember to include units in your answer: cm^3 , m^3 , km^3)

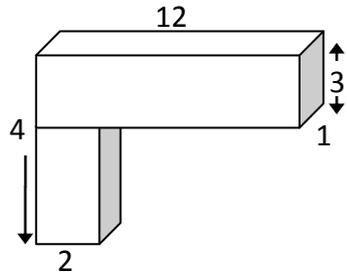
Work out the volume of the following cuboids (lengths are in cm)



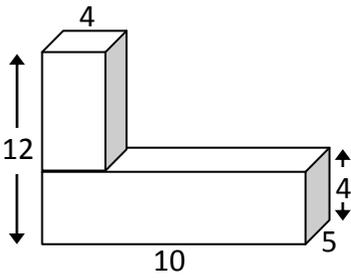
3)



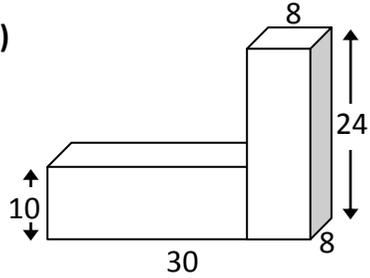
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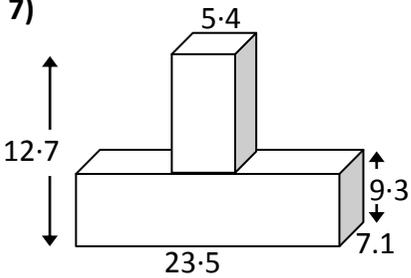
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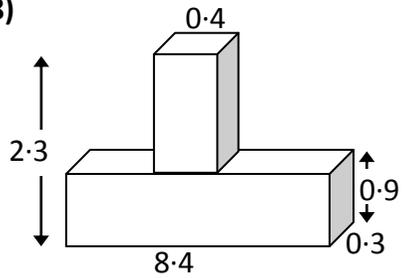
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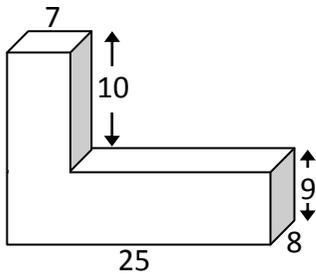
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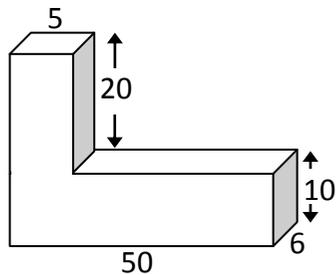
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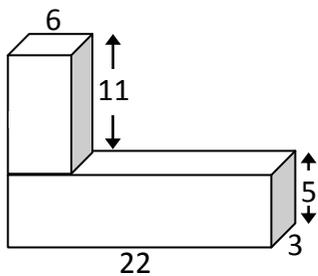
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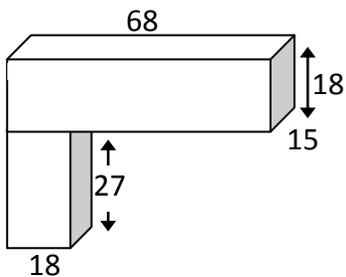
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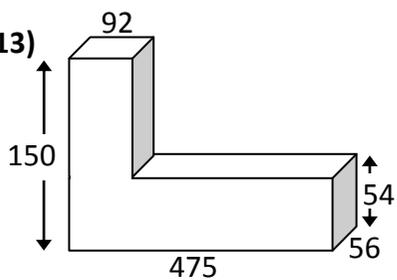
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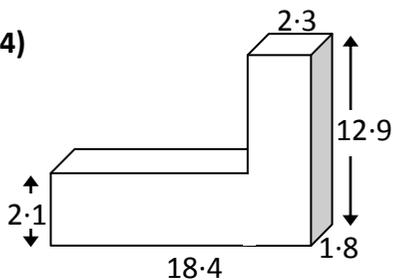
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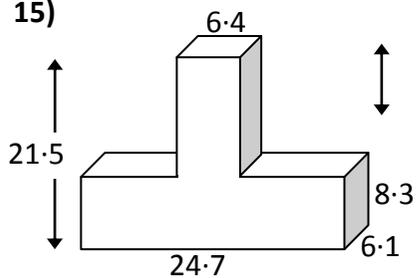
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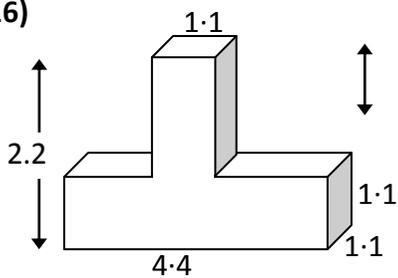
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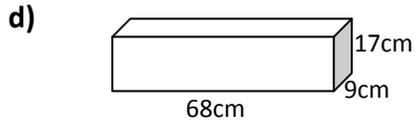
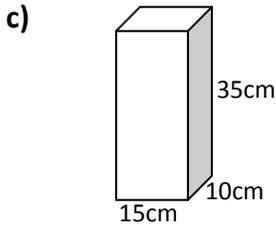
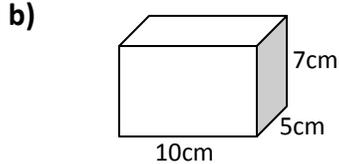
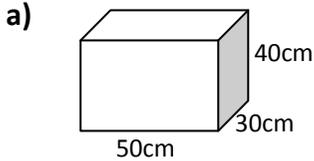
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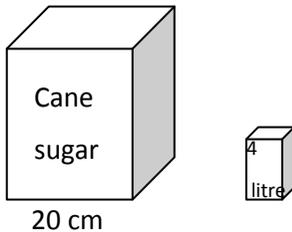
Exercise 2

1) Calculate the volume of each cuboid in cm^3 .

Write the volume in ml and calculate how many litres of liquid each of the following containers could hold.



2) A container, in the shape of a cube of side 20 cm, holds sugar

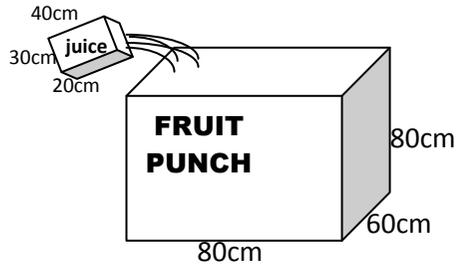


a) Calculate its **volume** in cm^3

b) How many litres can it hold?

c) How many 4 litre packets can be filled from the box when it is full?

- 3) A carton of orange juice is in the shape of a cuboid measuring 30cm, by 20cm, by 40cm.



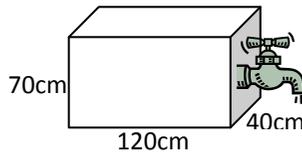
- a) Calculate its **volume** in cm^3
 b) How many litres can it hold?

The carton is poured into a plastic container in the shape of a cuboid to make up a fruit punch.

- c) Calculate the **volume** of the container in cm^3
 d) How many litres can the container hold?
 e) How many cartons need to be poured in to fill the container?

- 4) This tank is full of olive oil.

- a) Calculate its volume in cm^3
 b) How many litres can it hold?



It is discovered the tank is left in the sunlight and the oil has spoiled, therefore the tap is opened and the oil pours out at a rate of 6 litres/minute.

- c) How long will it take for the tank to empty?

- 5) Calculate the length of the missing edge of the cuboid.

