

Show your working-out and remember to include units in your answers.

Question 1

1 mark

Which metric unit would be most appropriate for measuring the distance from Melbourne to Sydney? (Select from the following: mm, cm, m, km)

Question 2

1 mark

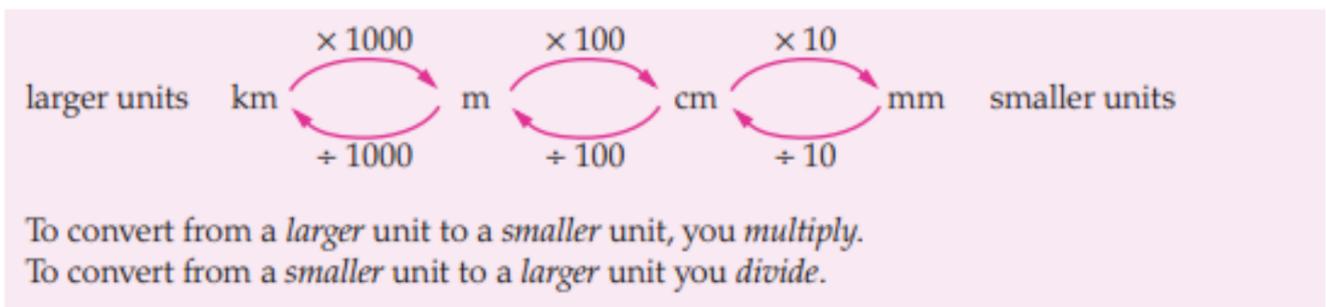
Rearrange the following units in ascending order (smallest to largest)

5.4 m, 500 cm, 5 km, 50 m

Question 3

1 mark

Which metric unit would be most suitable for measuring the area of a mathematics textbook? (Select from mm², cm², m², km²)



Question 4

4 marks

Complete the following conversions.

(a) 29 km = _____ m

(b) 612 mm = _____ cm

(c) 89 m = _____ km

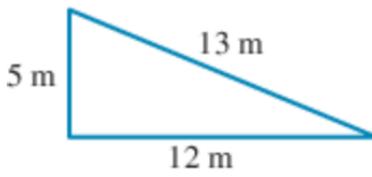
(d) 0.25km = _____ cm

Question 5

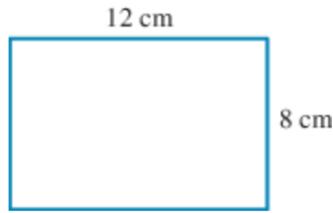
(1+2+2=5 marks)

Find the perimeter of the following shapes.

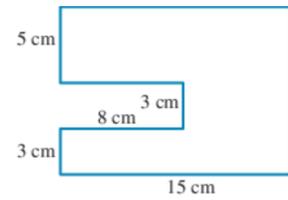
(a)



(b)



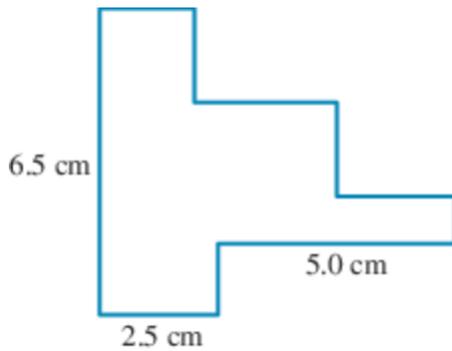
(c)



Question 6

2 marks

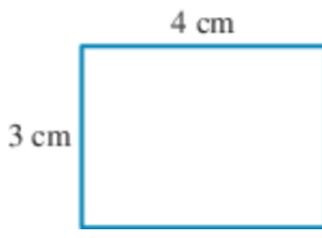
Find the perimeter of the following shape.



Question 7

2 marks

Find the area of the following rectangle using the formula **area = length × width**.



Question 8

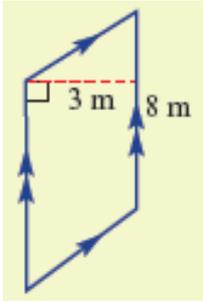
2 marks

Find the area of the square with side lengths of 2.9 cm.

Question 9

2 marks

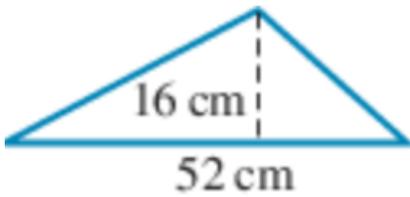
Find the area of the parallelogram using the formula **Area = base × height**.



Question 10

2 marks

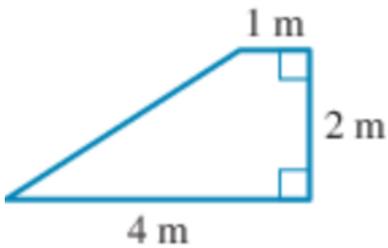
Find the area of the triangle by using the formula **Area = $\frac{1}{2}$ × base × height**.



Question 11

3 marks

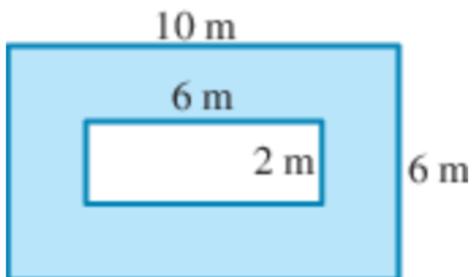
Calculate the area by cutting the composite shape into a triangle and a rectangle.



Question 12

3 marks

Find the area of the shaded part.



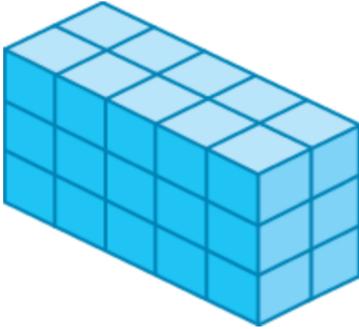
Volume = Length x width x height

Question 13

1 mark

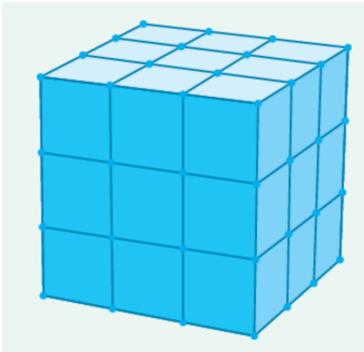
a) Assuming that each cube represents 1 cm^3 , find the volume of the following object in cm^3 .

a.



1 mark

b) Find the volume of the rectangular prism. (Each small cube represents 1 cm^3 .)

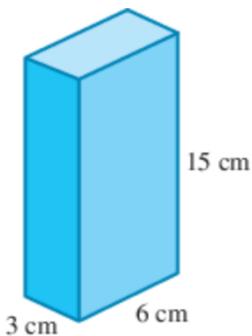


Question 14

2 marks

Find the volume of the rectangular prism by using the formula:

Volume = length \times width \times height



Question 15

2 marks

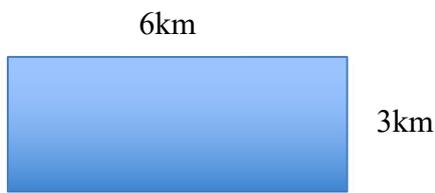
A rectangular prism has a volume of 480 cm^3 . If its length is 12 cm and its width is 4 cm, what is its height? **Draw a diagram and show calculations.**

Question 16**2 marks**

Bruno is knitting a scarf. If, at the end of Monday the scarf is 200 **mm** long and he can knit 15 **cm** in a day, how long is the scarf at the end of Saturday (in centimetres)? (**Hint: complete your calculations in one unit of measurement**)

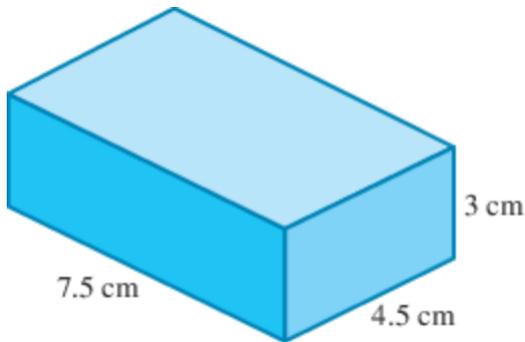
Question 17**2 marks**

The following rectangle has an area of 18 km^2 and a perimeter of 18 km. Find another rectangle that has the same numerical value for both its area and its perimeter.

**Question 18****2 marks**

The dimensions of a cereal box are 7.5 cm by 4.5 cm by 3cm.

(a) Find the volume of the cereal box shown below.

**2 marks**

(b) A large carton contains 14 boxes of the above cereal package. What is the volume of the large carton?

Bonus Question:**2 marks**

What could be the dimensions of the large carton containing the 14 boxes of cereal?