

# Maths - Week Starting 29th June – 8.3A and 8.3B

## Lesson 1

Go on to MyMaths and go on to “Volume and Capacity”.

Work through the lesson carefully, taking time to answer all the questions.

Then do the homework task. Aim for at least 80% score.

## Lesson 2

You will find a PDF file named “8.3 Volume” alongside this week’s work.

Click on this and answer all the questions in your books or print it out first.

I will send answers next week.

## Lesson 3

Go on to Mathswatch and find clip 21b – “Cuboids – Surface Area”.

Below you will find 3 worksheets with general questions on shapes.

You have covered all of this work so this is a chance to practice with a range of questions.

You can choose which of the 3 worksheets you want to do.

RED is the easiest, AMBER slightly more challenging and GREEN a little trickier.

However the questions are almost the same.

I will send answers next week.

WARNING! Don’t forget to include the correct units in your answers, cm, m,  $cm^2$ ,  $m^3$ , etc.

## SHAPE PROBLEMS RED – YOU MUST REMEMBER TO GIVE UNITS

1. A 5-sided shape has sides of 5cm, 5cm, 4cm, 4cm and 8cm.

What is the perimeter of this shape? \_\_\_\_\_



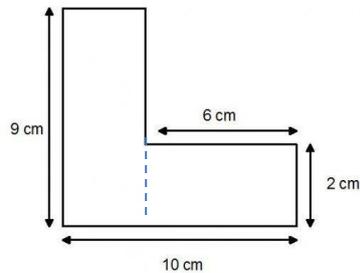
2. What is the perimeter of this L shape? What is the area?

TIP: Find the missing measurements first.

Perimeter = \_\_\_\_\_

Area = \_\_\_\_\_

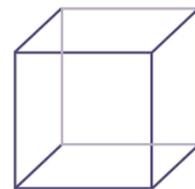
(TIP: find the 2 areas and add together)



3. If a cuboid has length 10cm, width 2cm and height 4cm, what is the volume of the cuboid?

\_\_\_\_\_

4. If the cube has sides of 2cm, what will the **volume** of this cube be?



5. Answer these 3D net questions

Which letter shape is a pyramid? \_\_\_\_\_

Which letter shapes have rectangular faces? \_\_\_\_\_

Which letter shape(s) have 5 faces? \_\_\_\_\_

What shape will net D make? \_\_\_\_\_

Which letter shape is a prism? \_\_\_\_\_

A

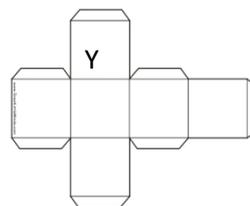
B

C

D



6. Put an X on side that will be **opposite** to Y when this net is folded up.



7. If the **area** of a rectangle is  $10\text{cm}^2$  and one side is 5cm, what is the other side going to measure? \_\_\_\_\_



## SHAPE PROBLEMS AMBER – YOU MUST REMEMBER TO GIVE UNITS

1. A 5-sided shape has sides of 5cm, 5cm, 4cm, 4cm and 8cm.

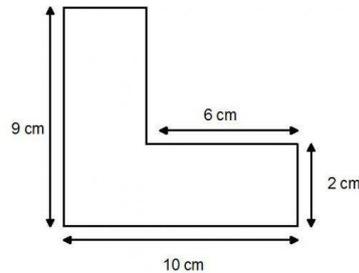
What is the perimeter of this shape? \_\_\_\_\_



2. What is the perimeter of this shape? What is the area?

Perimeter = \_\_\_\_\_

Area = \_\_\_\_\_

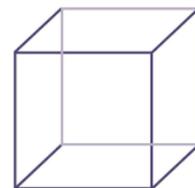


3. If a cuboid has length 10cm, width 2cm and height 4cm, what is the volume of the cuboid?

\_\_\_\_\_

4. If the volume of a cube is  $8\text{cm}^3$  what are the sides going to measure?

The sides will be \_\_\_\_\_



5. Answer these 3D net questions:

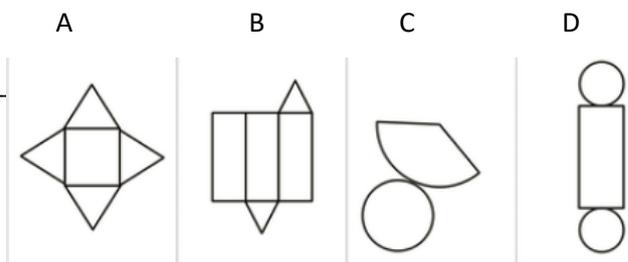
Which letter shape is a pyramid? \_\_\_\_\_

Which letter shapes have rectangular faces? \_\_\_\_\_

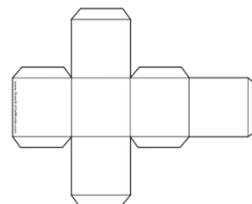
Which letter shape(s) have 5 faces? \_\_\_\_\_

What shape will net D make? \_\_\_\_\_

Which letter shape is a prism? \_\_\_\_\_



6. Put an X on 2 sides that will be opposite each other when this net is folded up.



7. If the area of a rectangle is  $30\text{cm}^2$  and one side is 5cm, what is the other side going to measure? \_\_\_\_\_

**SHAPE PROBLEMS GREEN – YOU MUST REMEMBER TO GIVE UNITS**

1. A 5-sided shape has sides of 8cm, 8cm, 5cm, 5cm and 11cm.

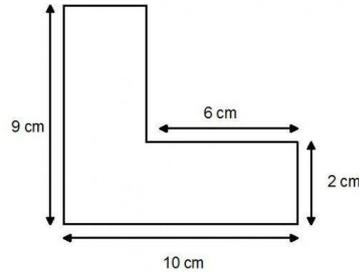
What is the perimeter of this shape? \_\_\_\_\_



2. What is the perimeter of this shape **IF IT IS DOUBLE THE SIZE**? What is the area?

Perimeter = \_\_\_\_\_

Area = \_\_\_\_\_

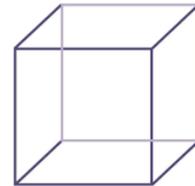


3. If a cuboid has length 12cm, width 2cm and height 4cm, what is the volume of the cuboid?

\_\_\_\_\_

4. If the volume of a cube is  $64\text{cm}^3$  what are the sides going to measure?

The sides will be \_\_\_\_\_



5. Answer these 3D net questions

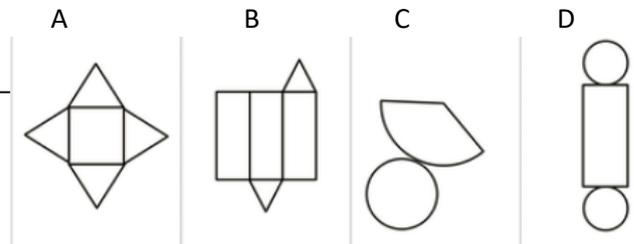
Which shape is letter A? \_\_\_\_\_

Which letter shapes have rectangular faces? \_\_\_\_\_

Which letter shape(s) have 5 faces? \_\_\_\_\_

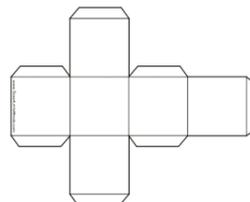
What shape will net D make? \_\_\_\_\_

Which letter shape is a prism? \_\_\_\_\_ Give its full name: \_\_\_\_\_



6. Put an X on 2 sides that will be opposite each other when this net is folded up.

Also write a B on a face that could be the bottom and a T on a face that could be the top.



7. If the area of a rectangle is  $63\text{cm}^2$  and one side is 9cm, what is the other side going to measure? \_\_\_\_\_