Home Learning MATHS week 12

Monday - Week 9 lesson 1

Tuesday - Week 9 lesson 2

Summer Term - Week 9 (w/c 22nd June)

This is where this weeks videos
will be

+

Summer Term - Week 8 (w/c 15th June)

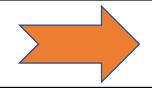
+

Wednesday - Week 9 lesson 3

Thursday - Week 9 lesson 4

Friday - Catch up day

You will need to use this link to access the videos



https://whiterosemaths.com/homelearning/year-6/

Home Learning MATHS week 12

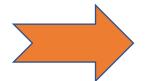
This week, you will not be able to access the

worksheets online.

I have included them as a PDF file and are

accessible through the school website.

You will need to use this link to access the videos

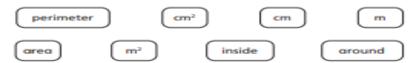


Answers - Monday

Area and perimeter

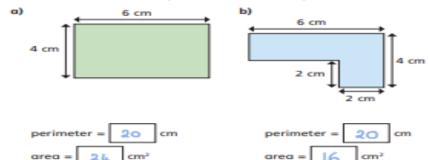


Use the words to complete the sentences.

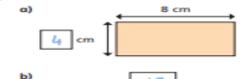


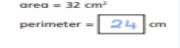
two-dimensional shape. It can be measured in units such as

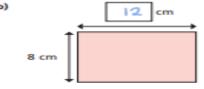
Work out the areas and perimeters of the shapes.



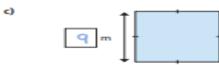
3 Work out the missing values.



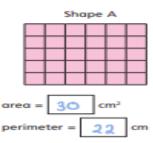


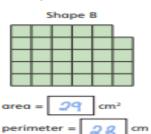






Work out the areas and perimeters of the shapes.





What do you notice?







If you start with a rectilinear shape, when you increase the area, the perimeter will increase.

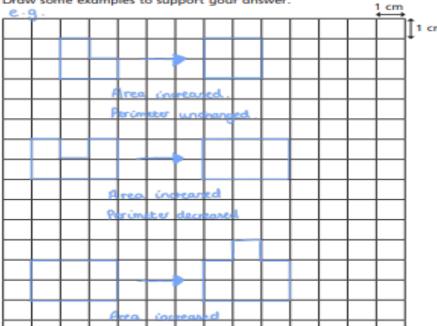
Tommy

It depends on the shape.



Who do you agree with? Arm

Draw some examples to support your answer.



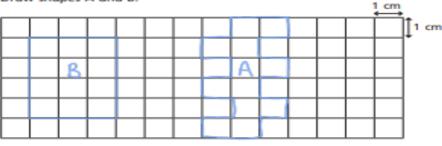




- Shape A has the largest perimeter possible.
- Shape B has the smallest perimeter possible.

Draw shapes A and B.





What do you notice?



7 Mr Jones has 50 m of fencing.



 a) Draw an example of a shape he could make. Give units on your diagram.



b) What is the greatest possible area of the enclosure?

c) What is the smallest possible area of the enclosure?





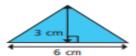


Tuesday

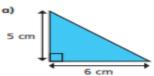
Area of a triangle (3)

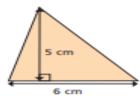


Calculate the area of the triangle.



Calculate the area of the triangles.

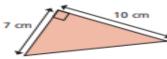


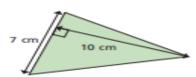




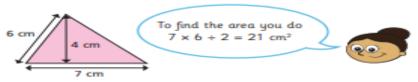


b)

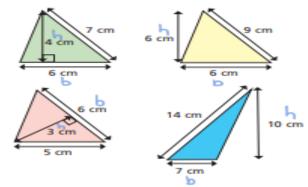




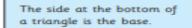
3 What mistake has Dora made?



4 Label the base of each triangle b. Label the perpendicular height h.



5 Are the statements always, sometimes or never true?



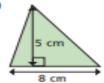
The perpendicular height is equal to the vertical height.



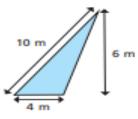
6 Calculate the area of the triangles.

a)

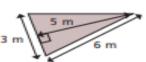
b)



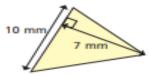
d)



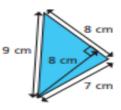
e)



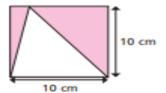
c)



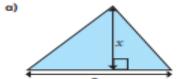
f)

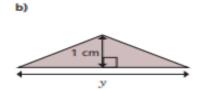


7 Find the area of the shaded region.

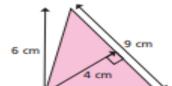


8 The area of each triangle is 12 cm². Find the missing lengths.





Show two ways you can work out the area of the triangle.



Compare answers with a partner.

6 cm

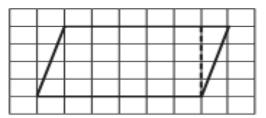


Wednesday

Area of a parallelogram



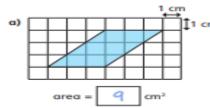
On a piece of squared paper, copy this parallelogram
 and cut it out

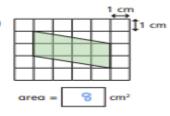


- a) Create a rectangle by cutting off the right-angled triangle and moving it.
- b) Complete the sentences.

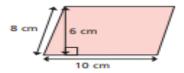
 The area of the rectangle is 24 squares.

 The area of the parallelogram is 24 squ
- Calculate the areas of the parallelograms.





3 Huan is finding the area of the parallelogram.



$$10 \times 8 = 80 \text{ cm}^2$$

a) What mistake has Huan made?

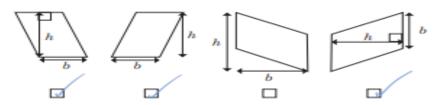
He happit used the perpendicular height.

b) What is the correct answer?

area = 60 cm²

Esther has labelled the bases and heights for four parallelograms.

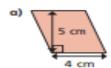
Three are correct; one is incorrect. Tick the shapes that have been correctly labelled.

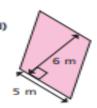


Explain to a partner why one is incorrect.

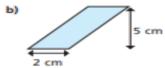


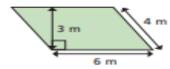
Calculate the areas of the parallelograms.





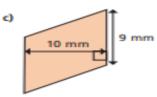


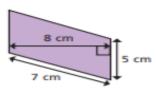






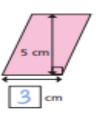
f)



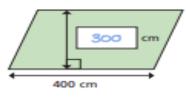


6 Find the missing lengths.

a)



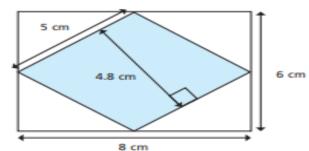
b)



$$area = 15 cm^2$$

$$area = 12 m2$$

Here is a rhombus inside a rectangle.



a) Calculate the area of the rhombus.

The area of the rhombus is half the area of the rectangle. This means that it is a special triangle.



Explain to a partner why Mo is wrong.



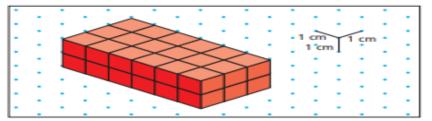


Thursday

Volume of a cuboid

White Rose Maths

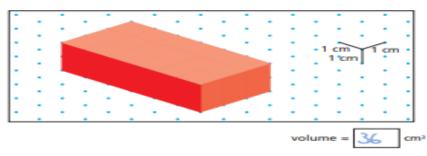
Here is a cuboid made up of cubes.



a) What is the volume of the cuboid?

b) Explain your method for finding the volume.

c) What is the volume of this cuboid?

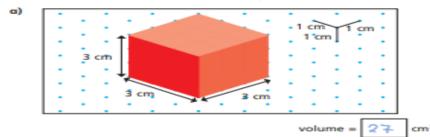


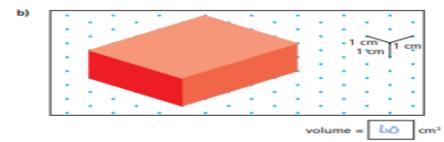
d) What is the same and what is different about the cuboids?



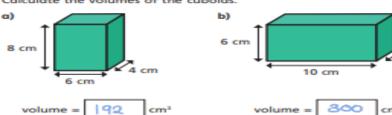
2 Find the volume of the cuboids.

You can make them with cubes if it helps.





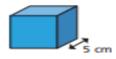
Calculate the volumes of the cuboids.





Calculate the volumes of the cubes.

a)



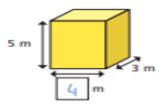
volume = J25 cm

b)

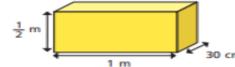


volume = 343 mm²

5 The volume of the cuboid is 60 m³
Find the missing length.

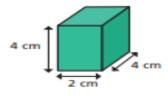


6 Calculate the volume of the cuboid.

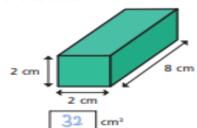


volume = |50,000 cm²

a) Calculate the volumes of the two cuboids.



32 cm²



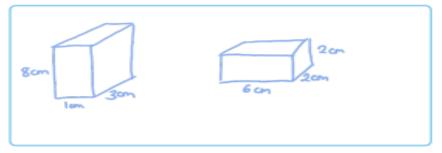
What do you notice?



b) Draw two different cuboids that have a volume of 24 cm²

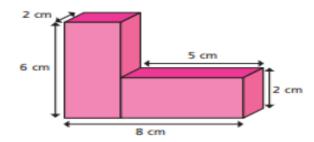


e.g.



8 Calculate the total volume of the shape.





volume = 56 cm²

Was there another method you could have used?



