29/01/21

O LO: Can I start to calculate the area of parallelograms and triangles?

In the lesson today, I would like you to start by watching the maths video input for the week (specifically the section for Friday's lesson). We are going to be working out the area of triangles and parallelograms today. Below are some questions for you to try. You can start with either red or orange (depending on if you feel you need to build confidence or if you are feeling pretty good about it) and then move onto the green for a challenge! There are some formulas written on the questions, but they are just a way to sum up the methods I used in the video to show you how to work out the area. I've written a guide below to them as well:

Triangles:

Area = base x height (would give the area of a square or rectangle) then ÷2.

That can be shown like this too: $\text{Area} = \frac{b \times h}{2}$

Parallelograms:

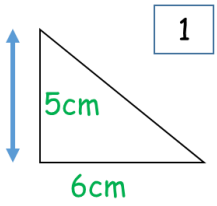
Area = base x height

This can also be shown like this: Area = b x h

There is also blank space underneath each set of questions. It would be great if you could use this as working out space to support your answers!

Red

1

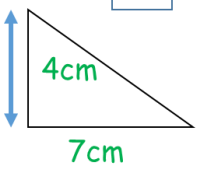


Area = $\frac{b \times h}{2}$

Area = $\frac{6cm \times 5cm}{2}$

Area =_____cm^2

2

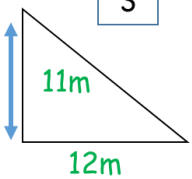


Area = $\frac{b \times h}{2}$

Area =

Area =_____cm^2

3

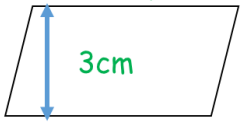


Area = $\frac{b \times h}{2}$

Area =

Area =_____m^2

4

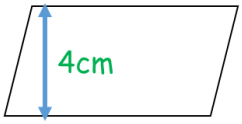


Area = b x h

Area = 6cm x 3cm

Area =_____cm^2

5



Area = b x h

Area =

Area =_____cm^2

6

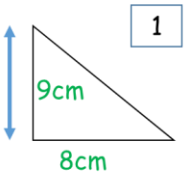
Area = b x h

Area =

Area =_____mm^2

Amber

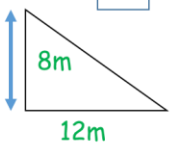
1



Area = $\frac{b \times h}{2}$

Area =_____cm^2

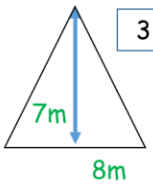
2



Area = $\frac{b \times h}{2}$

Area =_____m^2

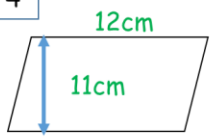
3



Area = $\frac{b \times h}{2}$

Area =_____m^2

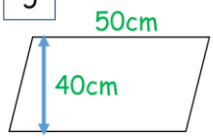
4



Area = b x h

Area =_____cm^2

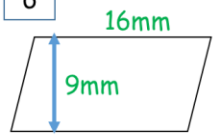
5



Area = b x h

Area =_____cm^2

6

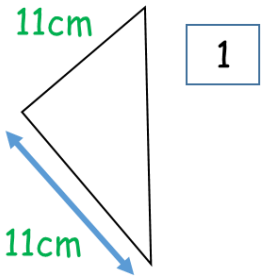


Area = b x h

Area =_____mm^2

Green

1



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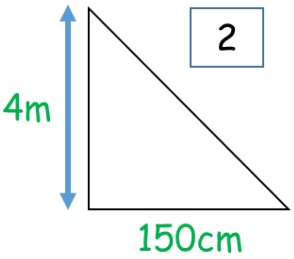
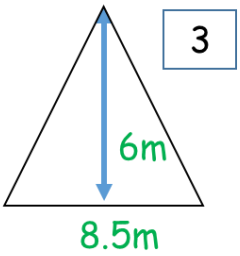


3



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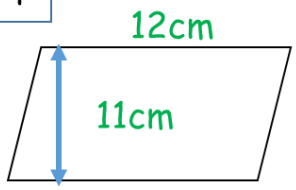
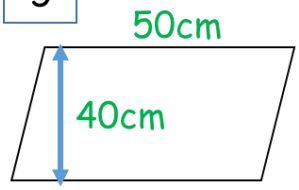
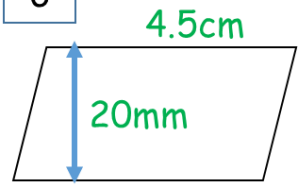


5



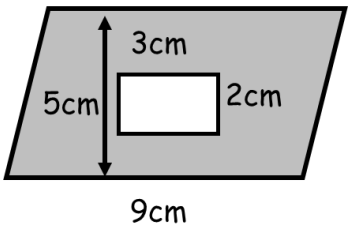
6



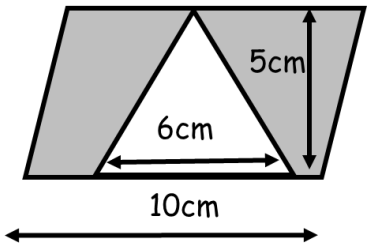
Extension

Find the shaded areas

1

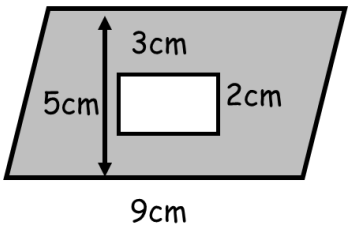


2

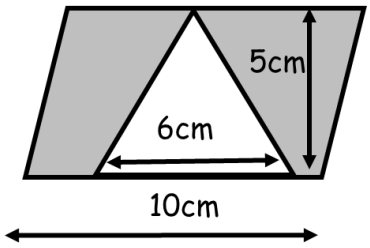


Find the shaded areas

1



2



Answers

Red

1. $15cm^2$
2. $14cm^2$
3. $66m^2$
4. $18cm^2$
5. $28cm^2$
6. $120mm^2$

Amber

1. $36cm^2$
2. $48m^2$
3. $28m^2$
4. $132cm^2$
5. $2000cm^2$
6. $144mm^2$

Green

1. $60.5cm^2$
2. $3m^2$
3. $25.5m^2$
4. $132cm^2$
5. $2000cm^2$
6. $9cm^2$

Extension

1. $39cm^2$
2. $35cm^2$