

10% of 4582

3698 ÷ 1000

45 x 32

85689 + 45872



85689 + 45872 = 131561 99686 - 45875 = 53811

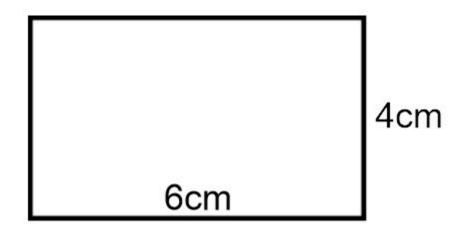
45 x 32 = 1440

10% of 4582 = 458.2 3698 ÷ 1000 = 3.698

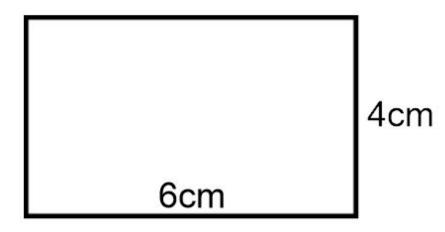
Fast 5

Can I find the areas of triangles and parallelograms?

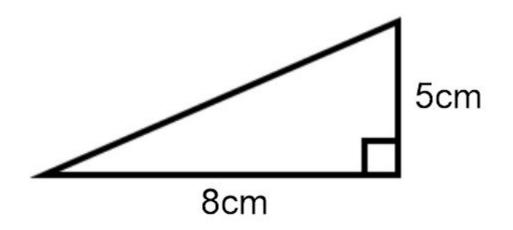
What is the AREA of a shape? How do we find it?



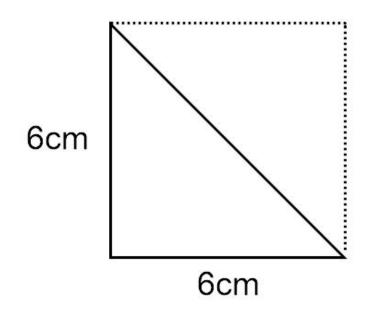
What is the area of this shape and how do we record it?

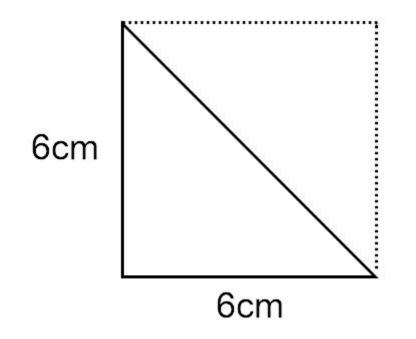


We multiply the base by the height and because the area is the space INSIDE the 2D shape, we record it in cm^2 $4cm \times 6cm = 24cm^2$



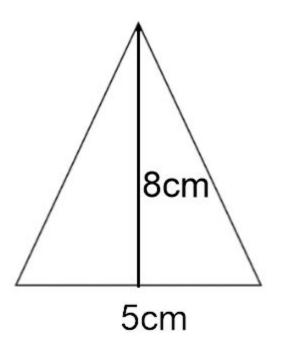
How do you think we find the area of a triangle? What shapes can we make from them? The simplest method to finding the area of a triangle is to make it into a rectangle or square and HALVE the area of that shape.



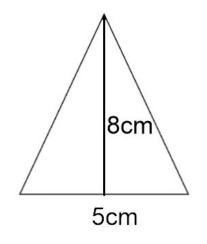


Here, we would calculate $6 \text{cm} \times 6 \text{cm} = 36 \text{cm}^2$ for the area of the SQUARE. Then, we would halve that answer to find our answer for the area of the triangle, 18cm^2

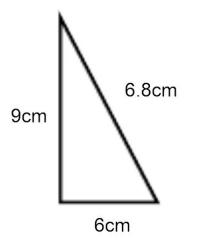
The other way to calculate the area is simply finding half of the base of the triangle multiplied by the height.



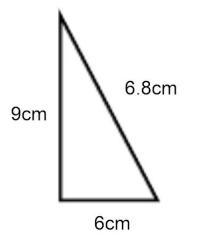
What is the area of this triangle? How would you work it out?



 $5 \text{cm} \times 8 \text{cm} = 40 \text{cm}^2$ $40 \text{cm}^2 \div 2 = 20 \text{cm}^2$



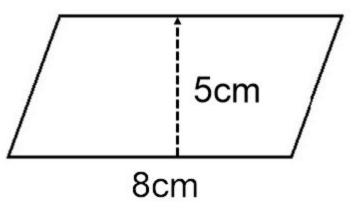
What is the area of this triangle? Is all of the given information useful?

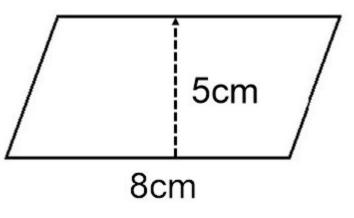


We only need the base and the height to find the area, so let's use those. 9cm x 6cm = 54cm² 54cm² ÷ 2 = 27cm²

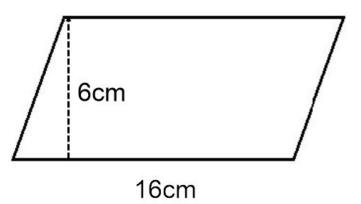
To find the area of a parallelogram, we just have to multiply the length of the base by the height.

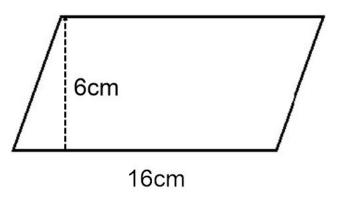
Let's try to find the areas of some parallelograms.



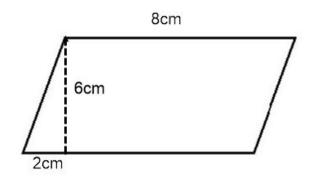


$5 \text{cm} \times 8 \text{cm} = 40 \text{cm}^2$

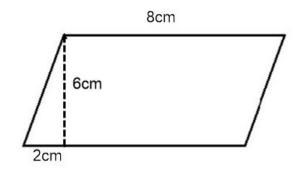




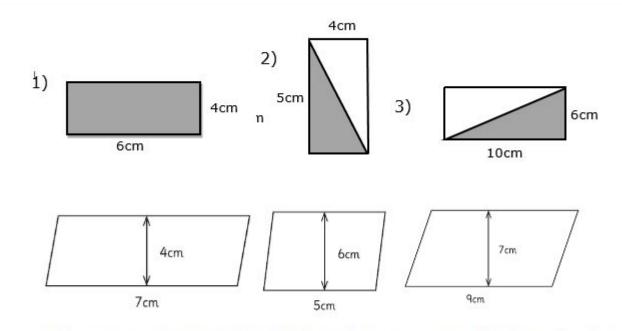
$16 \text{ cm x } 6 \text{ cm} = 96 \text{ cm}^2$



Find the relevant information here and then calculate the area of this parallelogram.



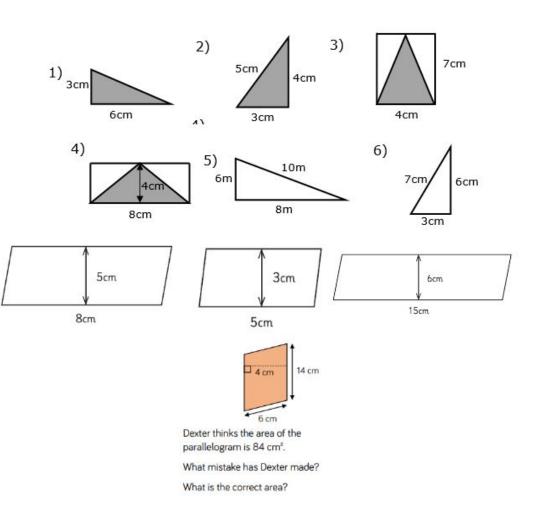
$8 \text{cm} \times 6 \text{cm} = 48 \text{cm}^2$



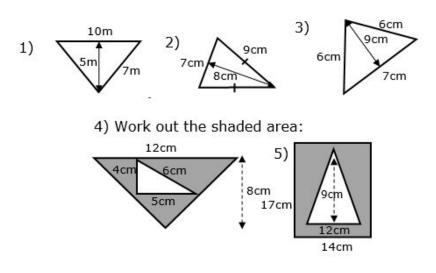
Red

Which parallelogram has the largest area? What is the difference between the largest and smallest area?

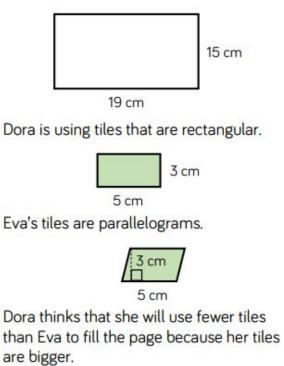
Yellow



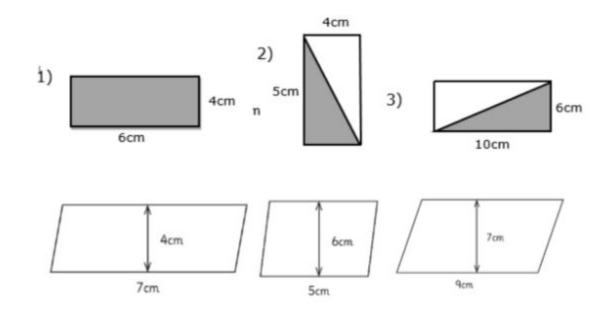
Green



Dora and Eva are creating a mosaic. They are filling a sheet of paper this size.



Do you agree? Explain your answer.



Which parallelogram has the largest area? What is the difference between the largest and smallest area?

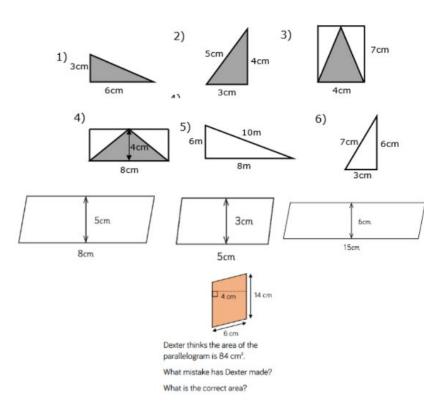
1. 24cm² 2. 10cm²

Red

3. 30cm²

4. 28cm², 30cm², 63cm² = Third has the largest area. Difference is 35cm²

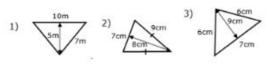
Yellow



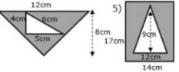
1. 9cm² 2. 6cm² 3. 14cm² 4. 16cm² 5. 24cm² 6. 9cm² 7.40cm² 8.15cm² 9.90cm²

10. He's multiplied 14 by 6 instead of by 4. Correct area is 56cm²

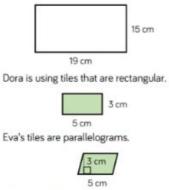
Green



4) Work out the shaded area:



Dora and Eva are creating a mosaic. They are filling a sheet of paper this size.



Dora thinks that she will use fewer tiles than Eva to fill the page because her tiles are bigger. Do you agree? Explain your answer.

1. 25m² 2. 28cm² 3. 31.5cm² 4. 86cm² 5. 184cm²

6. Dora is wrong, both tiles have the same area, so they will need the same number of tiles. The area is 285cm² and you would need 19 tiles to complete the pattern.