Area

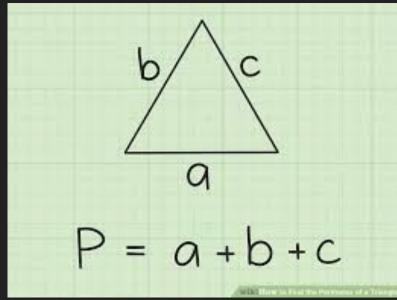
Without pencils and paper, try to solve each of the following. Remember your strategies so you can share with the class.

- 4 x 3
- 4 × 30
- \bullet 40×30
- 40 × 300
- 4,000 × 30

Perimeter of a Triangle

Perimeter is the the measure around the outside of a shape.

$$P=a+b+c$$



Area is given in square units, like cm2 or in2. The image below has an area of 1 cm2.

Why do we call it a square centimeter?



If you divide 1 cm in half, you have the image below:

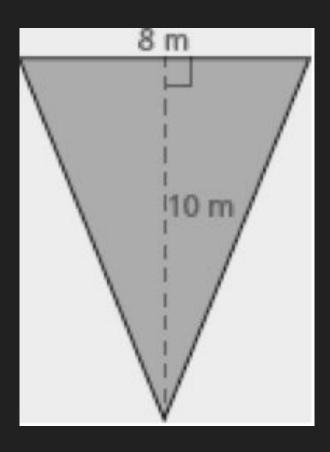


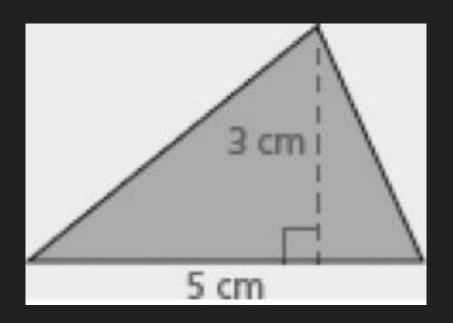
What is the area of each triangle?

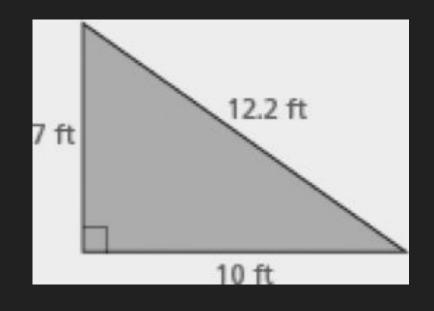
Area of a Triangle= ½ base x height

 $A = \frac{1}{2} bh$

https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-triangle/v/intuition-for-area-of-a-triangle



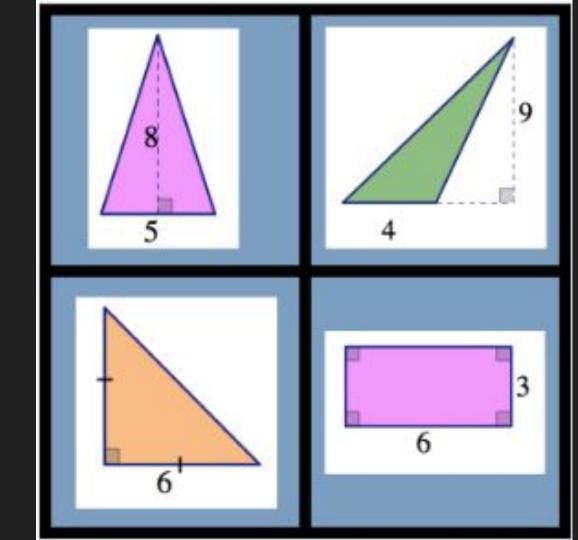




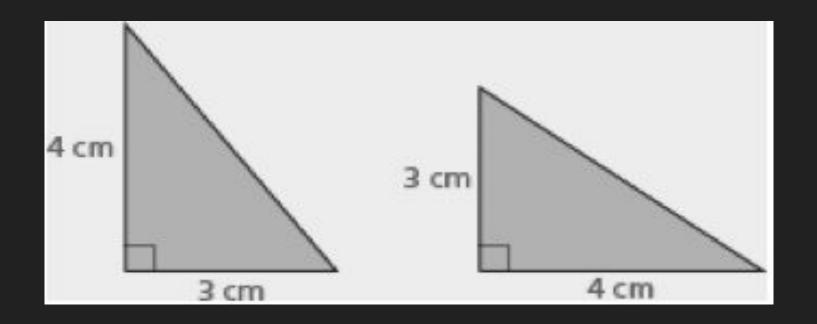
Area of Triangle

https://www.youtube.com/watch?v=xCdxURXMdFY

Which one doesn't belong?



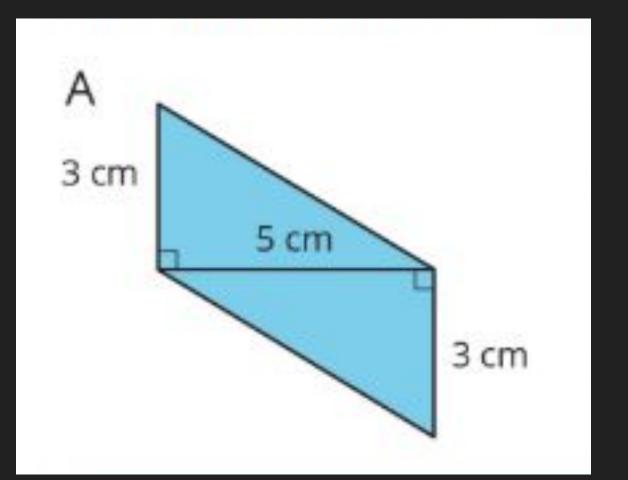
Do these triangles have the same area?



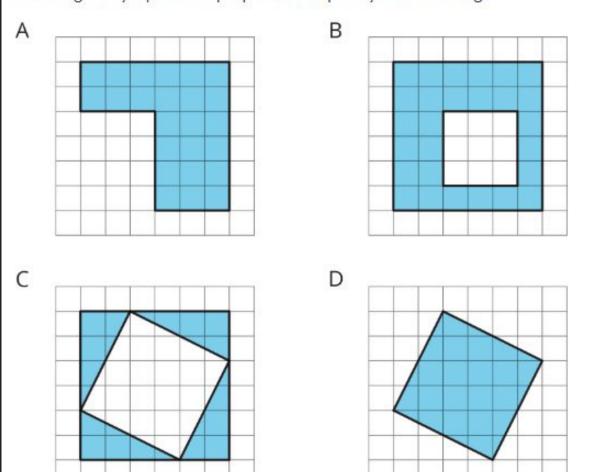
Area of Composite Figures

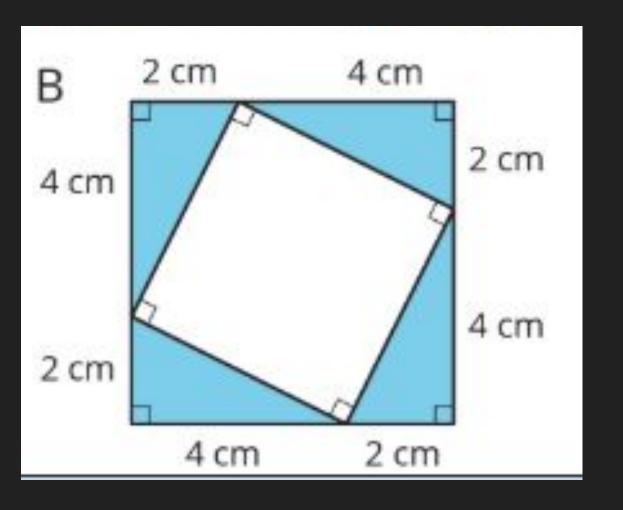
Composite figure- A figure or shape that can be divided into more than one of the basic figures

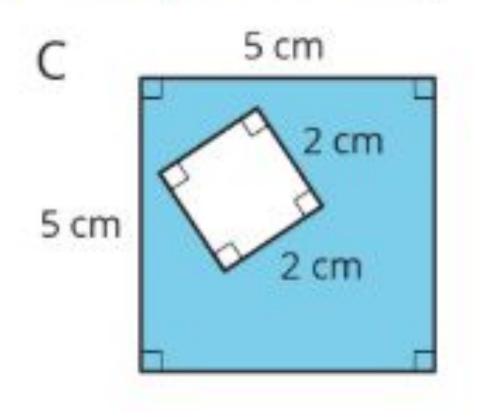
https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-trap-composite/v/area-breaking-up-shape



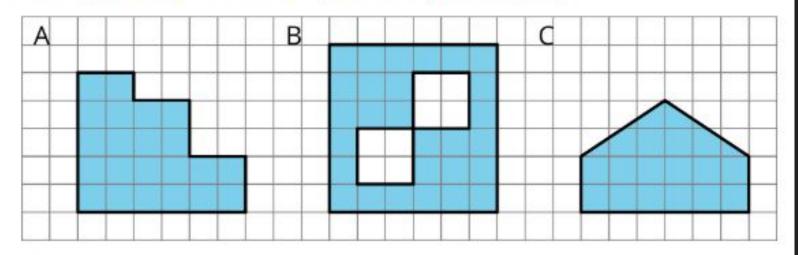
Each grid square is 1 square unit. Find the area, in square units, of each shaded region without counting every square. Be prepared to explain your reasoning.







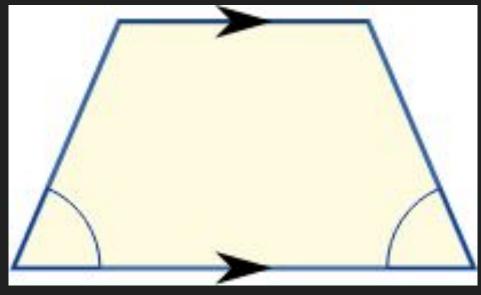
Find the area of each shaded region. Show your reasoning.



Area of a Trapezoid

Trapezoid- a quadrilateral with only one pair of

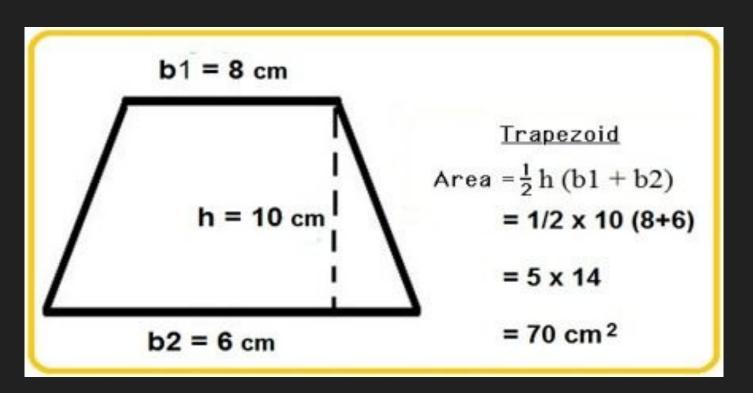
parallel sides.



Formula for Area of a Trapezoid

Area =
$$\frac{1}{2}$$
h (b1 + b2)

Example



Try together!

