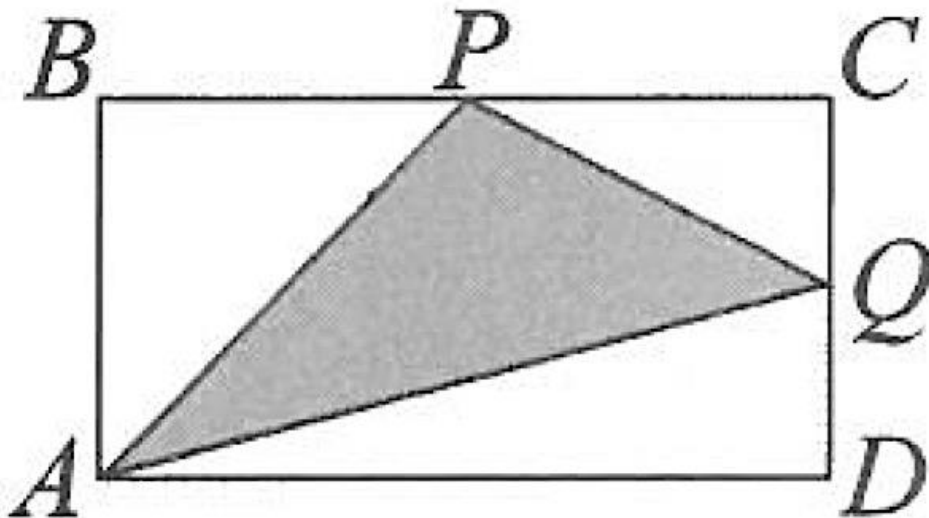



# Do Now



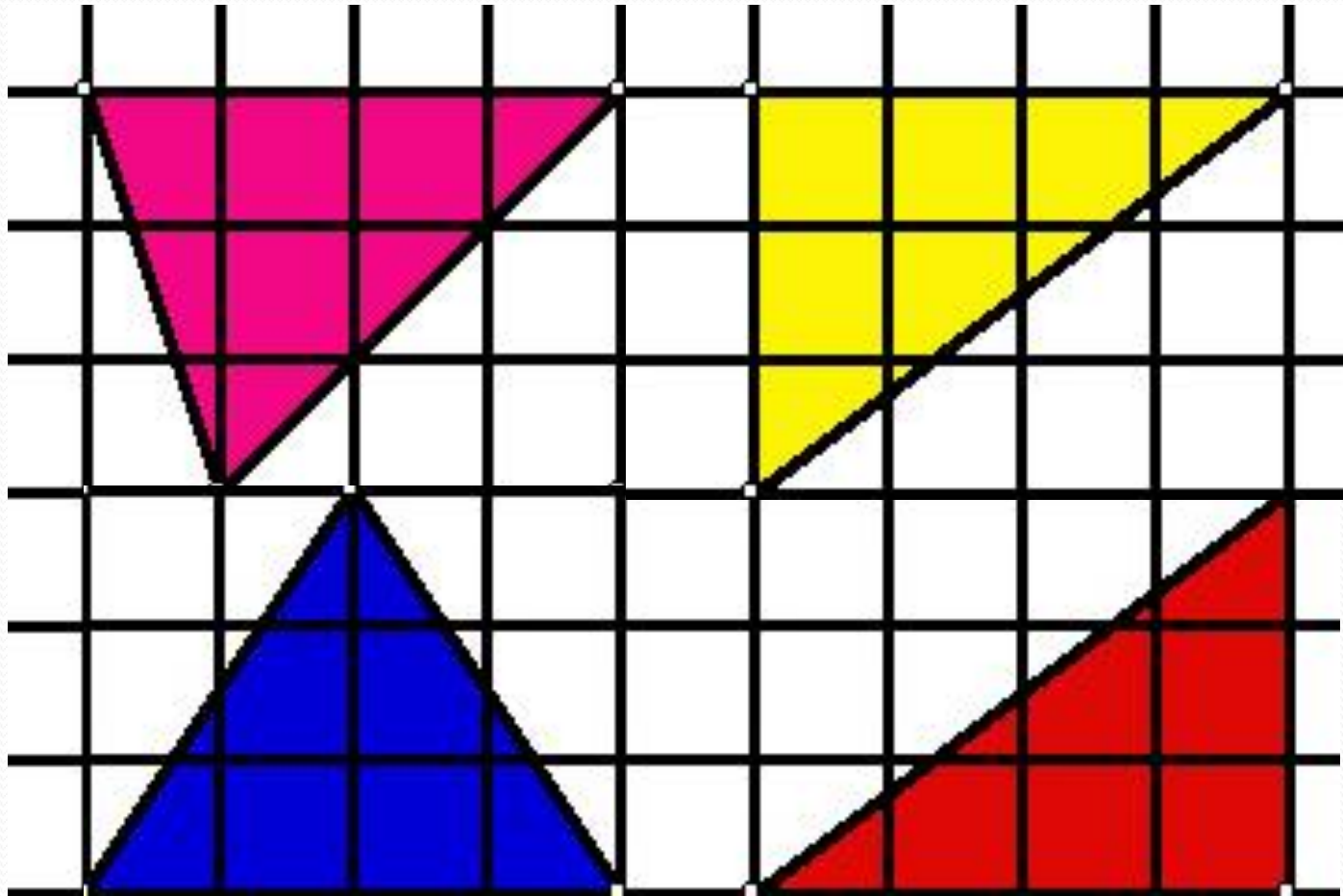
Please place your homework in front of you and work silently on the Do-Now. Thank you!

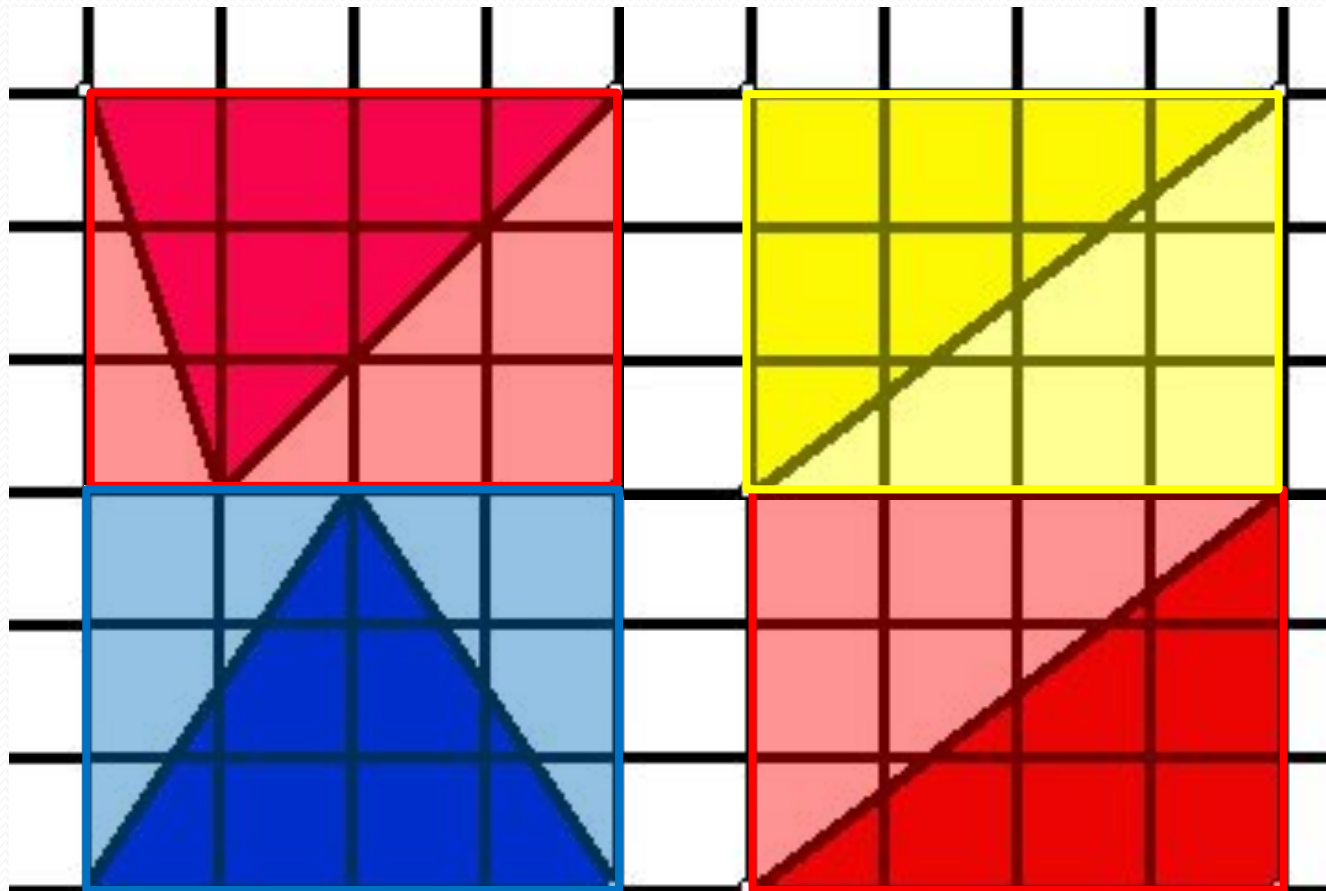
In rectangle  $ABCD$ ,  $P$  is the midpoint of side  $\overline{BC}$  and  $Q$  is the midpoint of  $\overline{CD}$ . The area of  $\triangle APQ$  is what fractional part of the area of rectangle  $ABCD$ ?





Doc Cam fold graph paper in half. 2 points along the side opposite the fold represents one side of triangle. Choose any point off fold for 3<sup>rd</sup> vertex. Cut out while still folded. Show that 2 triangles make a parallelogram. Tape together. Cut along one height to make rectangle.





# NOTES

Name: \_\_\_\_\_

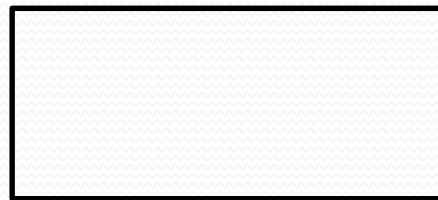
**Perimeter:** The distance around a figure. Perimeter is **one-dimensional**.

**Area:** The amount of space taken up by a figure. Area is **two-dimensional**.

**Rectangles:**

$$P = 2l + 2w$$

$$A = lw \quad \text{or} \quad A = bh$$



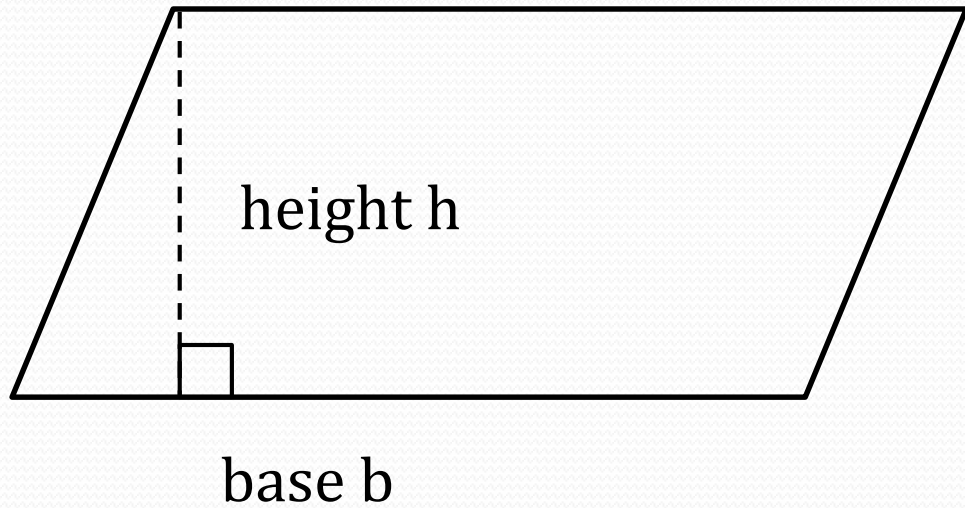
width w or  
height h

length l or base b

Parallelogram:

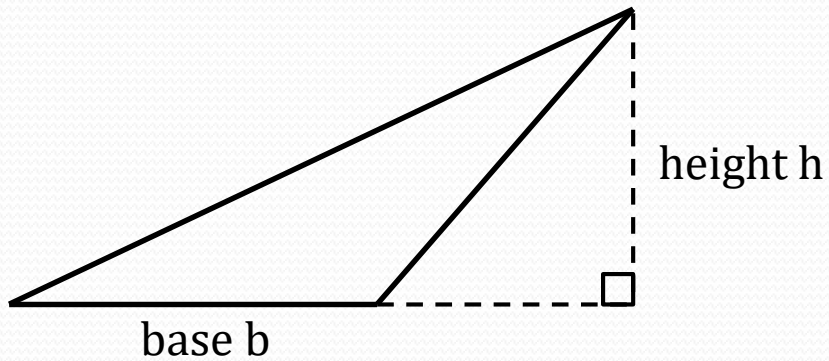
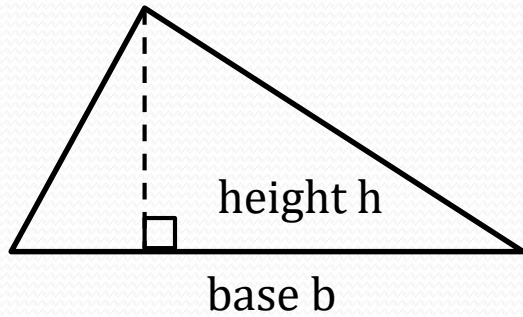
$P = \text{sum of side lengths}$

$A = bh$



Triangles:  $P = \text{sum of side lengths}$

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



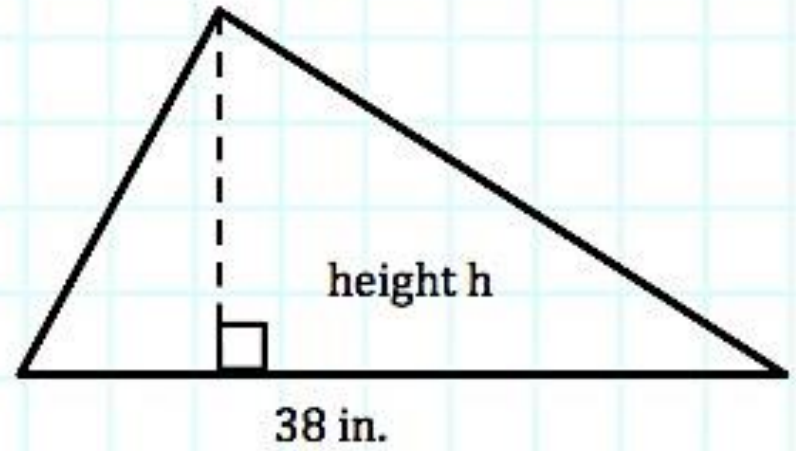


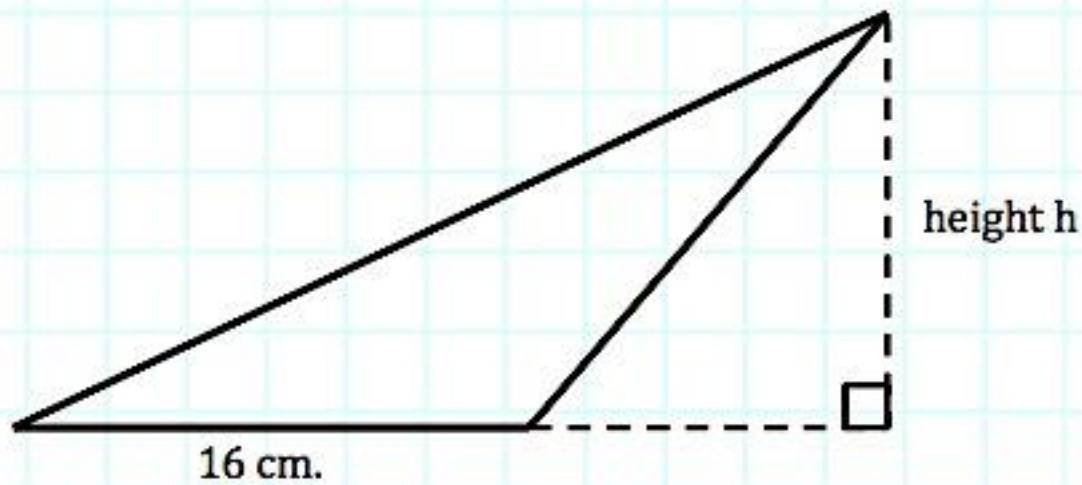
**Sum of angles of any triangle:**

**Sum of angles of any quadrilateral:**



This triangle's height is half of its base.  
What is the area?





This triangle's area is  $144 \text{ cm}^2$ .  
What is its height?

The base of this triangle is  $2\frac{1}{2}$  times its  
Height. What is the base's length?

