

# My Mistake.....

**Pre-Algebra Problem Set 1**

Name \_\_\_\_\_

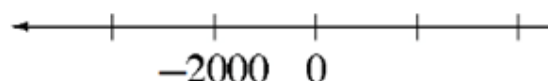
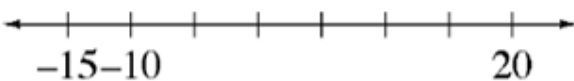
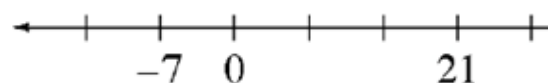
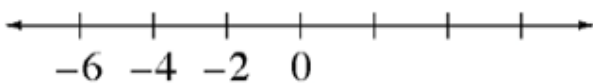
Assigned Friday 9/6, due Friday 9/13

**NO Work Shown, NO Credit Given**

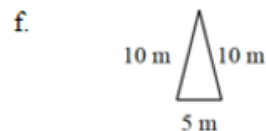
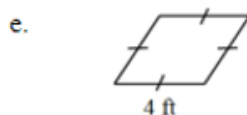
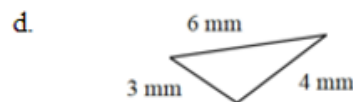
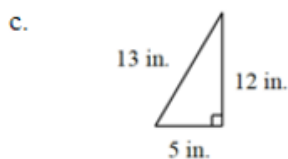
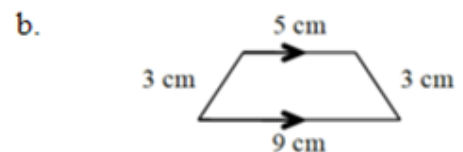
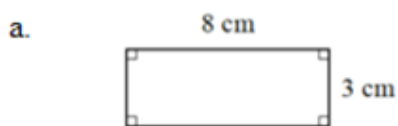
Period \_\_\_\_\_

**Problems #1-4 can be completed on this paper.**

1. Fill in the missing numbers on each number line.



2. Find the perimeter of each figure below. The markings on part (b) mean that the lines are parallel. The markings on part (e) show that all sides are the same length.



3. For each shape drawn in problem #2, choose one of the labels below that best describes that shape. Be as specific as you can. Look up the definitions on your iPad for more information if you do not remember what one of the words describes.

right triangle

scalene triangle

obtuse triangle

isosceles triangle

rhombus

rectangle

square

trapezoid

hexagon

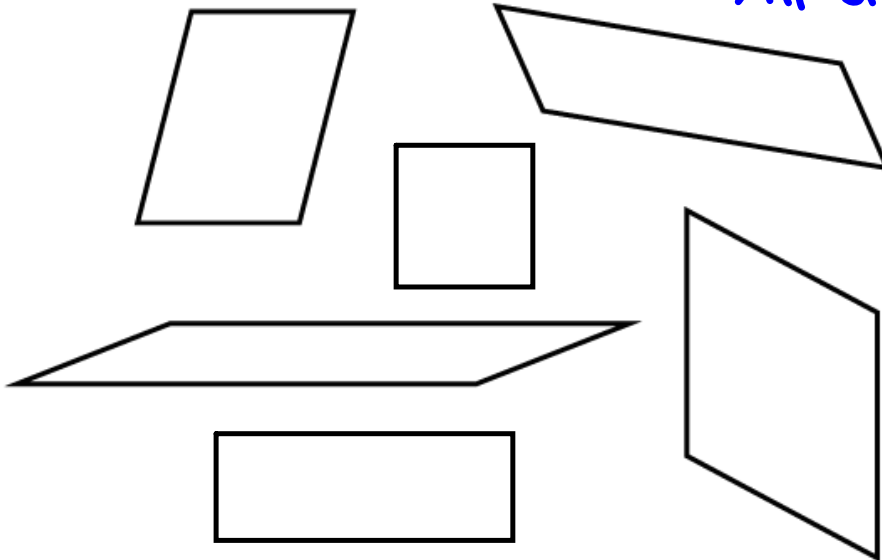
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Parallelogram

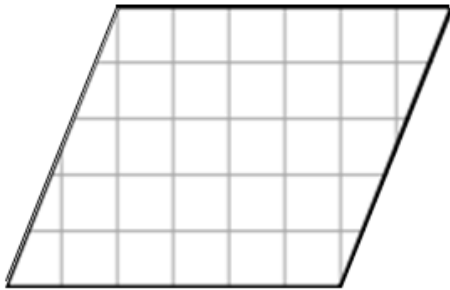
- 1) 4 sides
- 2) Opposite sides are  $\parallel$   
parallel

How many are parallelograms?

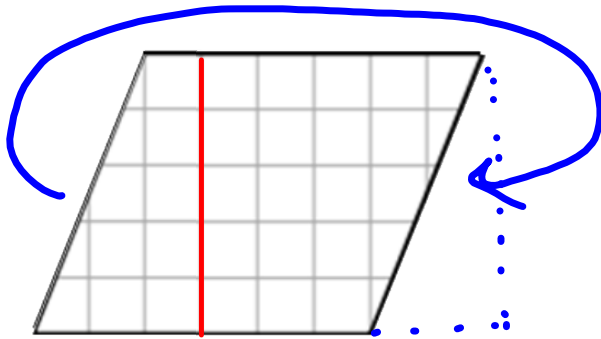
All of them!



Tape *one* of your parallelograms into spiral.



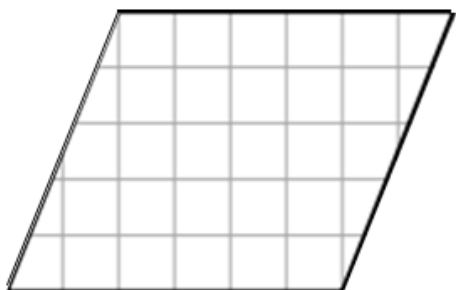
Cut 2<sup>nd</sup> parallelogram along red line.



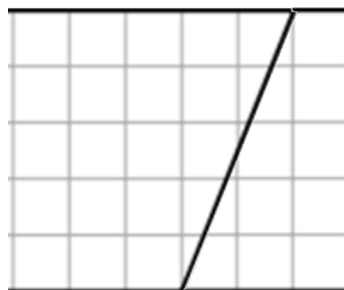
Rearrange two pieces to form rectangle.

Tape rectangle into spiral.

Same Area

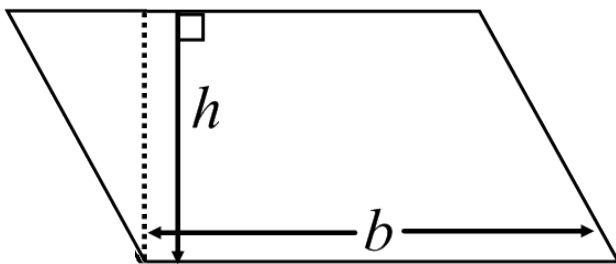


$$\text{Area} = 30$$



$$\text{Area} = 6 \cdot 5 = 30$$

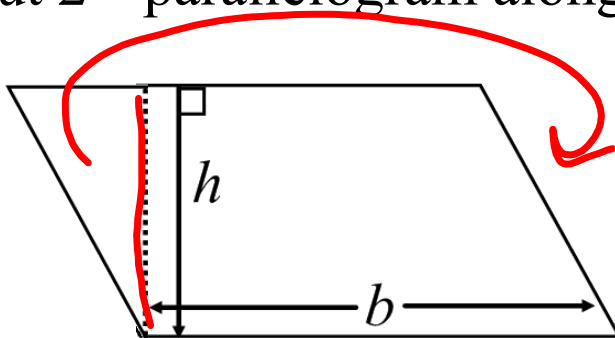
Tape *one* into spiral.



$h = \text{height}$   
 $b = \text{base}$

Glue rectangle into spiral.

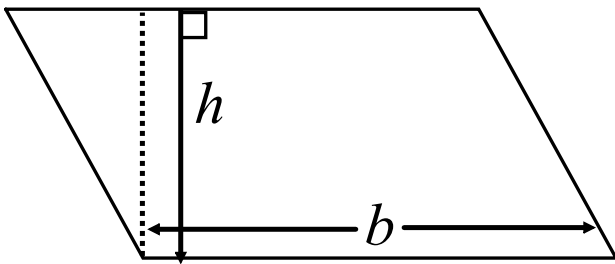
Cut 2<sup>nd</sup> parallelogram along dotted line.



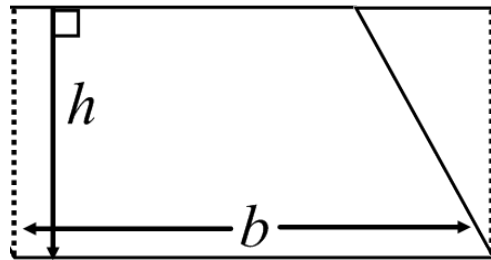
Rearrange pieces to form rectangle.

Tape rectangle into spiral.





$$\text{Area} = b \cdot h$$
$$\text{Area} = bh$$



$$\text{Area} = \text{base} \cdot \text{height}$$