Created by Mr. Lischwe

Warmup 2/ (Complement of an 85° angle)

1. **Solve the system of equations. Check your answer.**

$$\begin{cases} y = -5x + 15 \\ x + 2y = 12 \end{cases}$$

GET A PROTRACTOR!!!

ANNOUNCEMENTS

- Extra Practice for the TEST is now printed. (Yellow)

- I also have retake forms again!!!

Go over Green Half-sheet

PROTRACTOR/RULER RULES

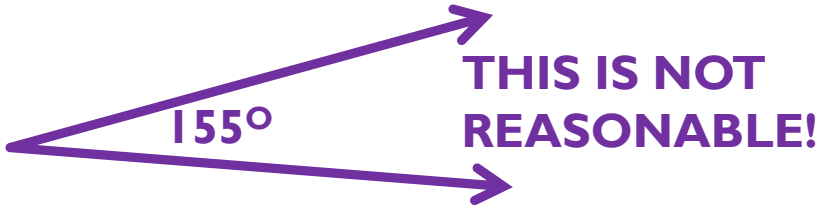
- Do not bend them. They are not made of rubber.
- Do not slap them against stuff. That's annoying.
- Do not leave them out. Put them back before you leave. This is not your bedroom.
- (I will be checking that they have all been returned before I dismiss the class)

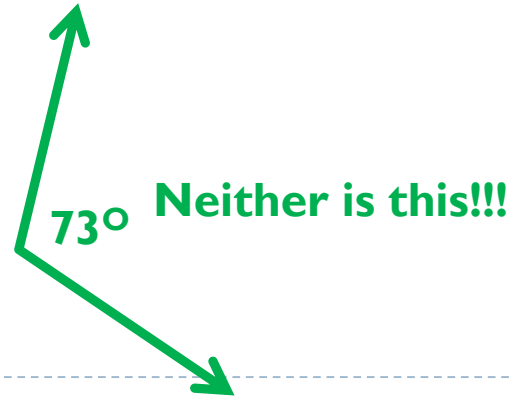
Using a Protractor: Videos

- https://www.youtube.com/watch?v=ABgR-QaMrSU
- https://www.youtube.com/watch?v=3NHnTHhnv8g

- To measure an angle **exactly**, use a protractor.

- **TIPS**
  - Put the cross over the vertex of the angle and line up one side of the angle with the zero
  - Extend the lines of the angle with a pencil if they don't reach to the edge of the protractor
  - Subtract the numbers that the two sides line up with. (You can use either row of numbers, but one will be WAY easier because one of the numbers will be zero)
  - ***ALWAYS CHECK TO SEE IF YOUR MEASUREMENT IS REASONABLE!!!***





- **Help each other do Section 3!**

Collect Angle Basics Worksheet

Table of Contents (2nd Semester)

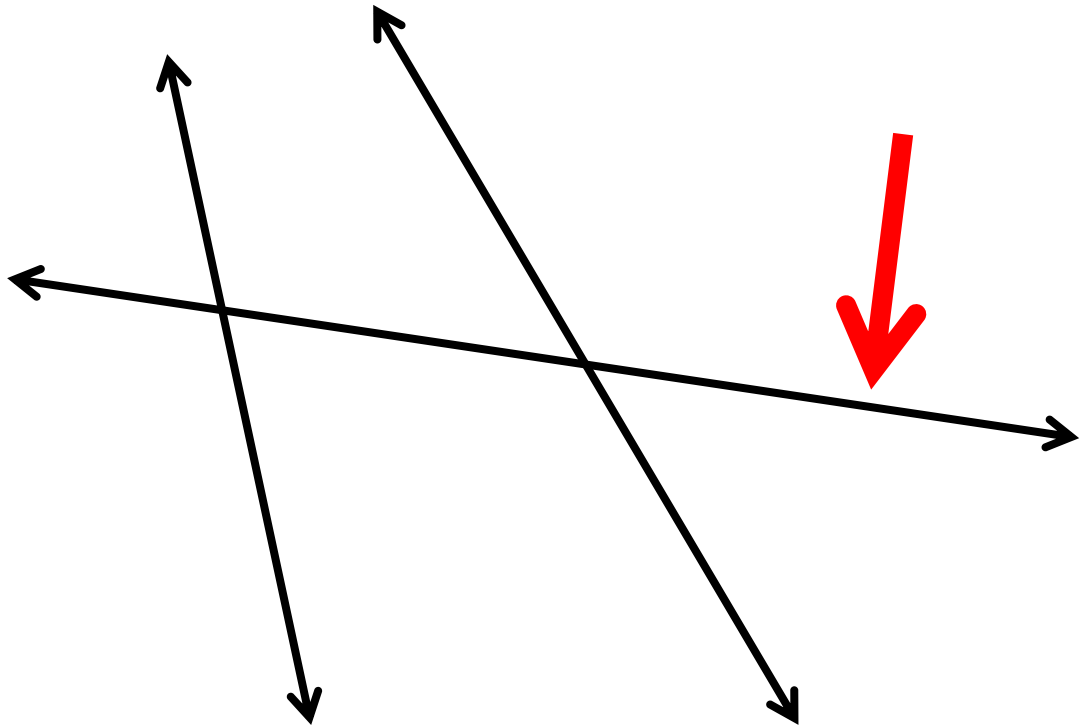
p. 1 Exponent Basics (1.2)
p. 2 Zero and Negative Exponents (1.5)
p. 3 Multiplying and Dividing Powers (1.3)
p. 4 Power to a Power (1.4)
p. 5 Scientific Notation (1.6)
p. 6 Calculating with Scientific Notation (1.7)
p. 7 Angle Basics
p. 8 Angles formed by Parallel Lines

Angles formed by Parallel Lines

Objectives:

- Given one angle measure, find ALL angles formed by 2 parallel lines
- Identify special angle pairs
- Use special angle pair rules to find angle measures

- **<u>TRANSVERSAL:</u>** A line that intersects two coplanar lines.

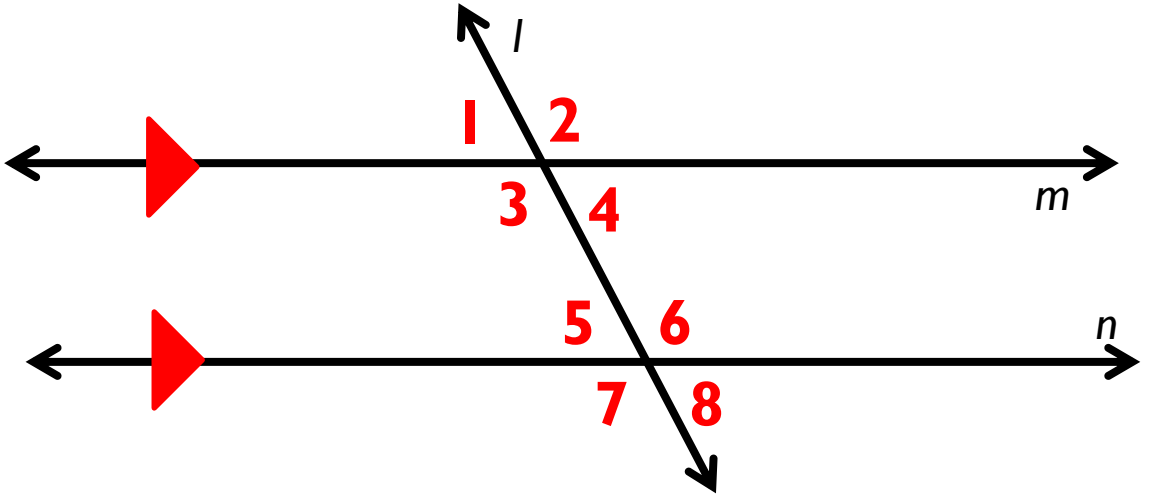


How many angles are there?

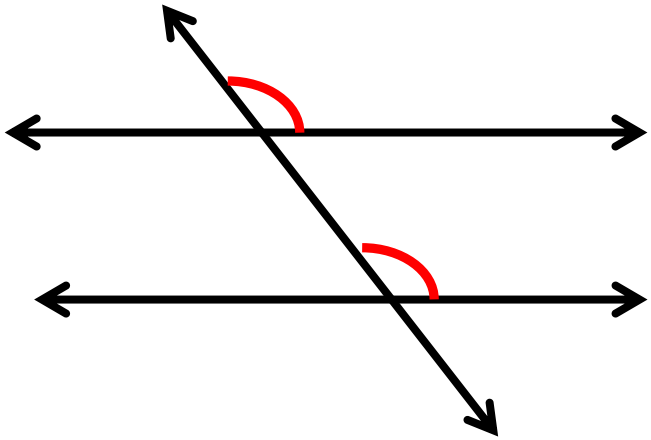
DISCUSS WITH YOUR GROUP:

- The red arrows mean that lines *m* and *n* are parallel. Suppose I give you the measure of angle 1. In your group, discuss the following question: how many OTHER angle measures, in addition to angle 1, is it possible to find? For the ones that are possible, how would you find them?
- I will call on **random** people to share what their group discussed.

If I know the measure of angle 1, how many more angle measures can I find? How?



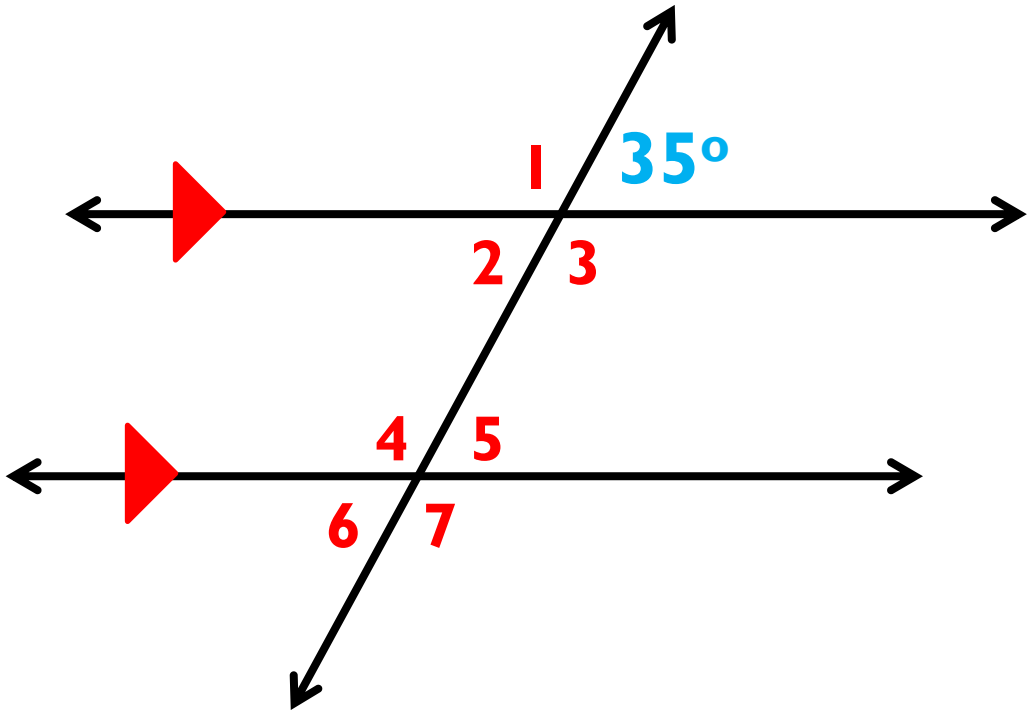
- Two angles that are in the same "position" but on different lines are called **corresponding**.



- If the lines are parallel, these angles will be congruent!!!

COPY the diagram!!!!

- One angle measure is given. Find the measures of **ALL** other angles.



$m\angle 1 = 145^o$

$m\angle 2 = 35^o$

$m\angle 3 = 145^o$

$m\angle 4 = 145^o$

$m\angle 5 = 35^o$

$m\angle 6 = 35^o$

$m\angle 7 = 145^o$