Warmup $2 /$ (The number of angles in this picture:

## DO ALL OF THESE THINGS:

- Write "Protractor CFU" on your warmup page for today.
- Write your name on your warmup page and turn it in to the tray yourself.
- Get a protractor.
- Sit back down.

If you get one wrong, you MUST do corrections until it is right.

If you have a bad/faded protractor, try to use it, but you can wait until a better one is available and turn in your CFU later.

## QUIZ IS MONDAY!!!

$\square$ Measuring Angles with a protractor
$\square$ Complementary/Supplementary/Vertical
$\square$ Finding angle measures with parallel lines and a transversal
$\square$ Corresponding/Alternate Interior/Alternate Exterior/Same-side interior
$\square$ Angle sums of triangles (Today)
(Btw, if you want to do your ALEKS on Monday night, that will be fine this week. There will be no other homework Monday night.)

## Worksheet Answers

## I WILL COLLECT THESE ON MONDAY!!!

## NEW TOPIC: ANGLES OF TRIANGLES

$\square$ Will be completely on whiteboards.
$\square$ There is ONE rule to write down - will be on the homework page.

PROVING the angle sum of a triangle...


## $\square$ Interior Angles of a

 Triangle:$\square$ Their sum is always $180^{\circ}!!!!!!$


## Find the missing angles!



## Find all angle measures:



## With algebra...

Find the value of $x$.


Alt. Ext: congruent

$$
\begin{aligned}
2 x+50 & =4 x-10 \\
x & =30
\end{aligned}
$$

## With algebra...

$\square$ Find the measure of both angles.
Same-side interior: supplementary


$$
\begin{gathered}
(5 x)+(x+30)=180 \\
6 x+30=180 \\
x=25
\end{gathered}
$$

Top angle: $5^{\circ} 25=125^{\circ}$
Bottom angle: $25+30=55^{\circ}$
Check: $125+55=180$ !

## With algebra...

$\square$ Find the measure of both angles.
Corresponding: congruent


$$
\begin{array}{r}
5 x-104=2 x-8 \\
3 x-104=-8 \\
3 x=96 \\
x=32
\end{array}
$$

Top angle: 5•32-104 =56 ${ }^{\circ}$
Bottom angle: 2•32-8=56 ${ }^{\circ}$
Check: They're the same!

## Algebra Connection...

$\square$ Find the measure of each angle:


## HOMEWORK

Finish the worksheet
$\square$ THE ANSWER KEY WILL BE ONLINE - STUDY THIS AFTER YOU FINISH!!!

