Intro to Geom for Monday 5/9/16

seniors: with Mrs. Toebben for exam!!

1) hand back papers; get **three** colors for today's lesson

2) new lesson on notes Assign #154N
   Triangle Angle Bisector Theorem

3) **quick quiz** SmartGoal on s-s int <'s etc.

4) Assign #154A worksheet
Triangle Angle Bisector Theorem:

The angle bisector will divide the sides of a triangle proportionally.

\[ \frac{a}{x} = \frac{b}{y} \]
ex 1  Find each value. (nearest tenth).
Show work.

\[
\frac{15}{12} = \frac{w}{8}
\]

\[
120 = 12w
\]

\[
w = 10
\]
ex 2A

Find each value. (nearest tenth)
Show work.

\[
\frac{3}{2} = \frac{5}{m}
\]

\[
\frac{5}{3} = \frac{10}{m}
\]

\[
m = 3.3
\]
ex 2 \( B \)  
Find each value. (nearest tenth).  
Show work.

\[
\frac{r}{18} = \frac{24}{36}
\]

\[
36r = 432
\]

\[
r = 12. 
\]
ex 3  Find each value. (nearest tenth).
Show work.

\[ \frac{30}{14} = \frac{y}{16} \]

\[ 480 = 14y \]

\[ 34.3 = y \]
Corollary to Side Splitter Theorem:

Parallel lines will divide transversal segments proportionally.

\[ \frac{m}{n} = \frac{x}{y} \]
ex 4  
Find the missing value. Show work.

\[ \frac{2g}{18} = \frac{12}{16} \]

\[ 16g = 2(16) \]

\[ g = 13.5 \]
ex 5 Find the missing value. Show work.

\[ \frac{e}{14} = \frac{2}{35} \]

\[ \frac{35e}{35} = \frac{28}{35} \]

\[ e = 8 \]
ex 6  Find the value of the variable.

Show work.

\[ \frac{33}{15} = \frac{22}{m} \]

\[ 33m = 330 \]

\[ m = 10 \]

Put this note at bottom of page:

Nothing on // sides means you DON'T add to get entire side.
ex 7 Find the value of the variable.

Show work.

on your own!
Bow Tie Color Patterns....
BOW TIE PROBLEMS!!!

ex 8 You are required to color code bow ties!!  (use 3 colors)

\[
\frac{p}{30} = \frac{16}{48}
\]

\[
\frac{q}{3b} = \frac{16}{48}
\]

\[
\frac{48p}{48} = \frac{480}{48}
\]

\[
\frac{48q}{48} = \frac{576}{48}
\]

\[
p = 10
\]

\[
q = 12
\]
BOW TIE PROBLEMS!!

ex 9 You are required to color code bow ties!! (use 3 colors)

\[
\frac{k}{60} = \frac{18}{45}
\]

\[
\frac{45k}{45} = \frac{1080}{45}
\]

\[
k = 24
\]

\[
\frac{27}{18} = \frac{45}{18}
\]

\[
18 \cdot 2 = 12 \cdot 15
\]

\[
2 = 12\frac{15}{18}
\]

\[
t = 67.5
\]
\[
15 + 5 = 20
\]
\[
\frac{20}{40} = \frac{15}{x}
\]
\[
20x = 600
\]
\[
x = 30
\]