

## TOMORROW IS ENRICHMENT WEDNESDAY

- If you want to do a retake, YOU MUST TELL ME TODAY
- People that are missing some ALEKS (more than ~15 min) will be required to report to the retake room.
- If you don't show up, you will be written up


## TRANSFORMATIONS QUIZZES

- May retake just part I or just part 2
- Extra Practice Worksheet available!!!


## SCALE FACTOR FORMULA

- Original $\times$ (scale factor) = Image
- Therefore:
- Scale Factor $=\frac{\text { side length of IMAGE }}{\text { side length of ORIGINAL }}$


## ANGLES QUIZ RETAKE

-Deadline is TOMORROW!!!

- Let me know if you want to be on the retake list.


## ON YOUR FOURTH GRAPH:

- Original coordinates: $\mathbf{H}(-2,3) \mathbf{I}(2.5,3)$
I) Perform a dilation using $\mathbf{k}=3$.

2) Find the length of the original segment and the image segment and use the scale factor formula to verify the scale factor.

## HOW COULD I DO DILATIONS FROM DIFFERENT POINTS BESIDES [0, 0]?

## Center of dilation = middle of the shape

(Scale factor $=2$ )


## Center of dilation = vertex of the shape

Center of dilation = origin (What we will be doing unless Itell you otherwise]


## FRACTIONS!!!

- Multiply $\frac{2}{5}$ by 13 and write your answer as a mixed number.
- $\frac{2}{5} \cdot 13=\frac{2}{5} \cdot \frac{13}{1}$
$\cdot=\frac{20}{5}=5 \frac{1}{5}$


## FRACTIONS!!!

- Graph triangle $\mathbf{T}(6,3) \mathbf{R}(10,1) I(9,-4)$ and dilate it using a scale factor of $\frac{2}{3}$.

(If the image looks like the same shape as the preimage, you can be confident you did it correctly!)


## WHAT WAS THE SCALE FACTOR?

- I have a 5 inch by 7 inch photo of a dog that I want to blow up to fit my frame that is $8 \frac{3}{4}$ inches by $12 \frac{1}{4}$ inches. What was the scale factor?
A) 1.5
B) 1.75
C) 1.8
Talk to your trio about how you would solve this problem.
D) 2.25

B

## WHAT WAS THE SCALE FACTOR?

- I have a 5 inch by 7 inch photo of a dog that I want to blow up to fit my frame that is $8 \frac{3}{4}$ inches by $12 \frac{1}{4}$ inches. What was the scale factor?
A) 1.5
$\frac{8 \frac{3}{4}}{5}$
$=8 \frac{3}{4} \div 5$
$=\frac{7}{4}$
B) 1.75
$=\frac{35}{4} \div$
$=1 \frac{3}{4}$
D) 2.25
$=\frac{7}{4} \cdot \frac{1}{5}$,
$=1.75$


## PLEASE DO \#3 AND \#4 ON PAGE 491


P. 491 [1-4]

1 (1) $C(1,4), A(2,2) . T(5,5) ; k=2$ $C^{\prime}(2,8), A^{\prime}(4,4), T^{\prime}(10,10)$

2. $R(1,1), S(1.7), T(5,7), U(5,1): k=\frac{3}{4}$ $R^{\prime}\left(\frac{3}{4}, \frac{3}{4}\right), s^{\prime}\left(\frac{3}{4}, 5 \frac{1}{4}\right), T^{\prime}\left(3 \frac{3}{4}, 5 \frac{1}{4}\right), U\left(3 \frac{3}{4}, \frac{3}{4}\right)$


