Warmup 2/(# of valence electrons in Calcium • # of protons in Oxygen + Atomic # of Hydrogen)

- Created by Mrs. England
- Which shape in the picture does not belong? Explain why it does not belong.
- Pick a different shape and come up with a reason why it doesn't belong. Repeat for every shape in the picture.



ABCD	EFGHIJKLMNOPQRSTUVWXYZ
Rotate	180°: HINOSXZ
Rotate	90°: OX (depending on how you draw them)
Reflect	(vertical line): AHIMOTUVWXY
Reflect	(horizontal line): BCDEHIKOX
Letters	that turn into a different letter: M/W, d/p
b/q, u/	/n

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NEW VOCAB WORDS

How do I do a dilation? (centered at the origin): Just multiply the x and y coordinates of each vertex by the scale factor (k)!















On your fourth graph:

- Original coordinates: H(-2, 3) I(2.5, 3)
- 1) Perform a dilation using 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.

Fractions!!!

• Multiply $\frac{2}{5}$ by 13 and write your answer as a mixed number.

$$\boxed{\frac{2}{5} \cdot 13} = \frac{2}{5} \cdot \frac{13}{1}$$
$$\boxed{=\frac{26}{5}} = 5\frac{1}{5}$$



Homework

□ p.491 (1 – 2)