esson lo

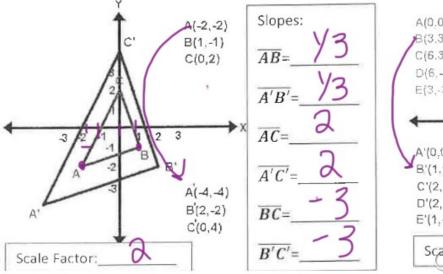
Oilations and Similarity

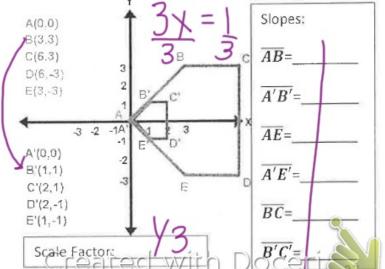
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Lesson 6 – Dilations and Similarity
❖ Definitions:
When a line segment passes through the center of dilation, the line segment and its image lie on the
When a line segment does not pass through the center of dilation, the line segment and its image are
-parallel
Dilations create figures that are always to one another.
Two figures are similar (~) if they have the same 5000 but not necessarily the same 5120.
> The
> Two figures are congruent (=) if they are similar and Created with Doceri



* Examples: Using the dilated figures below, name the scale factor used and find the slopes of the segments listed.



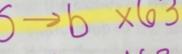


Nath 2 – Honors Unit 1 – Geometric Transformations esson 5 – Dilations HOMEWORK	NamePd
Describe the transformation given by rule (x, y) . Write an algebraic rule for the dilation:	NO NO
A. by a factor of 3	B. by a factor of $\frac{1}{2}$. $(1/2 \times 1/2 \times 1)$
3. Find the scale factor of the dilation that maps $ABCD \text{ to } A'B'C'D'.$ $D' \qquad 9 \qquad C' 3 \times = 9$ $3 \times 3 \times$	4. Find the scale factor of the dilation that maps ABC to A'B'C'. A 10 Created With Boceli

Applications:

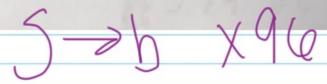
7. The package for a model airplane states the scale is 1 cm: 63 m. The length of the model is 7.6 cm. What is

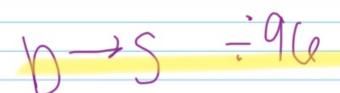
the length of the actual airplane?



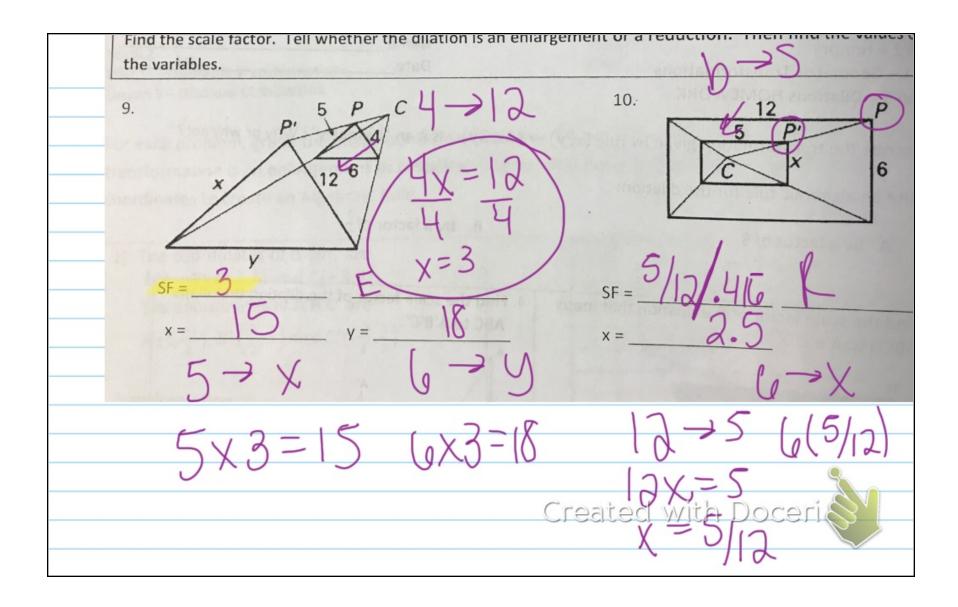
8. Another model airplane states the scale is 1 in: 96 ft. The length of the real airplane is 432 feet. What is

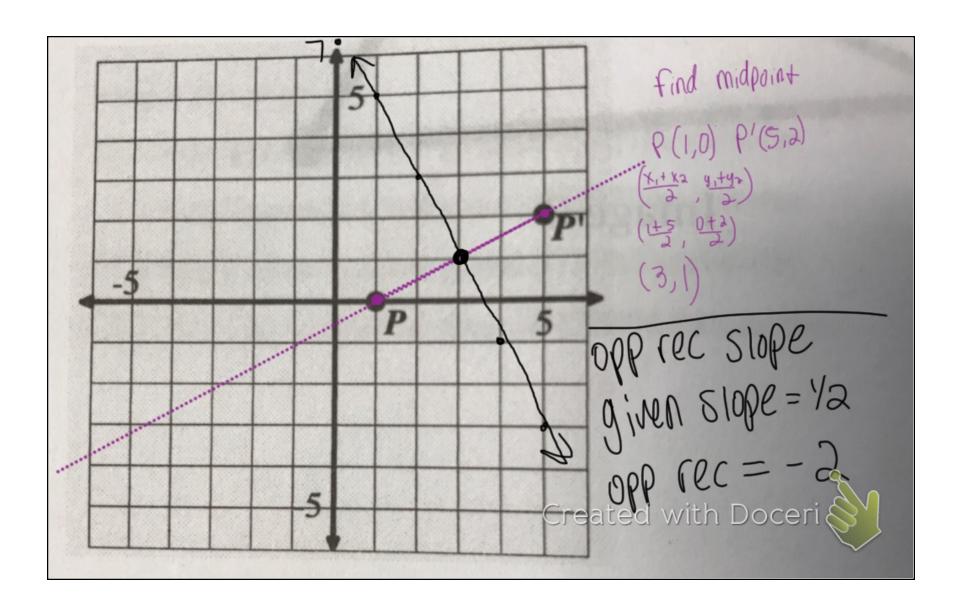
the length of the model?

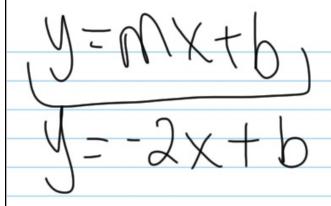




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y=-2x+7

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