Intro to Geometry

Unit Two – G.SRT.1-3 Review (IC/HW7)

Name: ______ Period: ______

For each multiple choice question, please circle your answer.

- 1. Which of the following is a dilation?
 - A) T(x, y) ---->(x-4, y+3)
 - B) T(x, y) ---->(y, x)
 - C) T(x, y) ---->(2x, 2y)
- D) T(x, y) ---->(5x, 3y)

Why? _____

- 2. Which of the following ratios is a reduction?
 - A) 1:3
 - B) 0.5: 0.75 C) 3:2
- D) 1: 1.0055

How do you know?

- 3. Which of the following ratios is an enlargement?
 - A) 500:50
- B) 0.01: 0.1
- C) 7 : 3.5
 - D) 0.1: 0.01

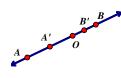
How do you know? _____

4. Determine the scale factor that appears to be used for each dilation (measured from O)



B) $\frac{1}{2}$ C) $\frac{1}{3}$

D) - 1



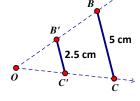
5. Determine the ratio of the given dilation?



B) 2:1

C) 2:5

D) 5:2



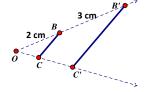
6. Determine the ratio of the given dilation from point O?



B) 1:1.5

C) 2:5

D) 3:2



ON #7-12, if you decided the triangles are not similar, explain why.

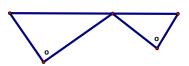
7. Which of the following would be the criterion for establishing similarity in the two triangles? A) AA~ B) SAS~ C) SSS~ D) Not enough info or not similar 8. Which of the following would be the criterion for establishing similarity in the two triangles? A) AA~ B) SAS~ C) SSS~ D) Not enough info or not similar 9. Which of the following would be the criterion for establishing similarity in the two triangles? A) AA~ B) SAS~ C) SSS~ D) Not enough info or not similar 10. Which of the following would be the criterion for establishing similarity in the two triangles? A) AA~ B) SAS~ C) SSS~ D) Not enough info or not similar

- 11. Which of the following would be the criterion for establishing similarity in the two triangles?
 - A) AA~

B) SAS~

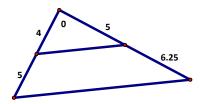
C) SSS~

D) Not enough info or not similar

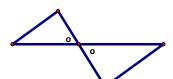


12. Are the following pairs of triangles similar? If they are, then name their similarity criteria. (SSS~, SAS~, AA~)

a) Yes / No _____



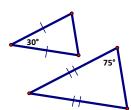
b) Yes / No _____



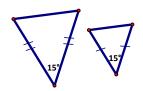
c) Yes / No _____



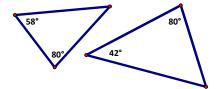
d) Yes / No _____



e) Yes / No _____

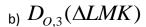


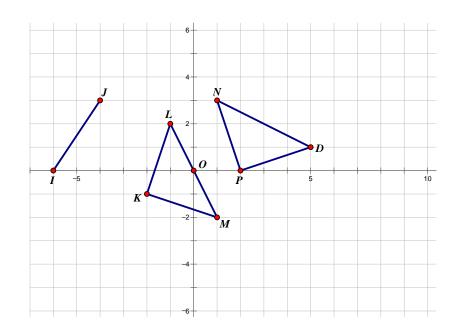
f) Yes / No _____



13. Graph the following dilations:

$$_{\mathrm{a)}}\,D_{o,\frac{1}{2}}(\overline{I\!J})$$





c) $D_{O,2}$ (ΔPND)

14. Dilate the following. (O is the origin).

a)
$$D_{0,2}(2,-1) = (\underline{\hspace{1cm}},\underline{\hspace{1cm}})$$

b)
$$D_{0,-3}(-2,4) = (\underline{\hspace{1cm}},\underline{\hspace{1cm}})$$

a)
$$D_{0,2}(2,-1)=(\underline{\hspace{1cm}},\underline{\hspace{1cm}})$$
 b) $D_{0,-3}(-2,4)=(\underline{\hspace{1cm}},\underline{\hspace{1cm}})$ c) $D_{0,-3}(\underline{\hspace{1cm}},\underline{\hspace{1cm}})=(12,-21)$

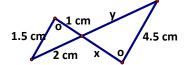
15. Given that \triangle NHG \sim \triangle JKL. Complete the following.

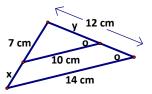
a)
$$\angle G \cong \angle$$
 _____ b) $\frac{KL}{HG} = \frac{JK}{\Box}$ c) $\angle J \cong \angle$ _____

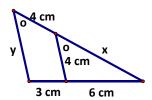
d)
$$\frac{\square}{NG} = \frac{KL}{HG}$$

16. Write a similarity reason (SSS~, SAS~, AA~) for the two triangles. Then, solve for the missing information, given that the two triangles in each question are SIMILAR.

a)







Similarity Reason:

17. The perimeter of a red	ctangle is 504 cm. If the lengtl	n and the width are in a ratio of 7:	2. Find the length and width.
18. Are the triangles similar	·? If so name the reason why and	write a similarity statement.	\boldsymbol{A}
	,	,	6 C 15 20
YES or NO	Reason:	Similarity Statement: _	E 16 D