DO NOW – Geometry Regents Lomac 2014-2015 Date due Scale drawings	5.1
(DN) What makes the cartoon at right funny? Name LO: I can describe the qualities of scale drawings a explain why they are useful.	nd
(1) What does "to scale" mean? (a) Does the left or the right funhouse mirror show us an accurate picture of what this boy looks like? Explain your choice. (b) Anyone who uses "pinch to zoom" on a phone or tablet is working with images that are "to scale" meaning that the images are propriorian (all lengths change by the same scale factor or multiplier). The top image of Spongebob and his friends is on your phone and you "pinch to zoom" to make the image larger. Describe why why not each of the 3 pictures below could be the result of your "pinch to zoom" action. ORIGINAL IMAGE ON PHONE ORIGINAL IM	

	5.1
<u>(2)</u>	How can we construct a scale drawing?
compass, straightedg	(a) Rusaria claims that she has constructed a scale drawing of triangle ABC and labeled it ADE.
е	
	\D
	B
	A C E
	Use your compass and straightedge to compare the side lengths of triangle ADE and ABC.
	AD isAB
	AE isAC
	DE isBC
	Rusaria has/has not (circle one) constructed a scale drawing of triangle ABC and labeled it ADE because
	Rusaria constructed her scale drawing by using a scale factor of
	\Box (b) Use a scale factor of 3 (r = 3) and Rusaria's method to construct a scale drawing of triangle TIN and label it TOP. (Hint: Start by extending rays TI and TN.)
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	I <u>/</u>

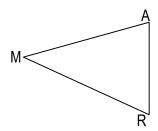
(3)	How are scale drawings useful?
	Use each picture to answer each question in a sentence.
	(a) How do scale drawings help people make murals?
	(b) How do scale drawings help people compare large objects that are far apart?
	Great Pyramid Calgary Tower Eiffel Tower CN Tower El Gizeh, Egypt Calgary, Canada Paris, France Toronto, Canada
	El Gizeñ, Egypt Calgary, Canada Paris, France Toronto, Canada [Construction of the construction of the con
	(c) Flow do scale drawings help people learn about objects that are not always practical to have of hard?
	Scale of 2:1
	(d) How do scale drawings help people plan large projects?
	PLAN PLAN
	O MARIO

(4)

Exit Ticket

compass, straightedg

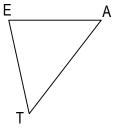
(1) Trace triangle MAR onto your paper and use your compass and straightedge to construct a scale drawing of triangle MAR and label it M'A'R'. Use scale factor r = 2. Describe what makes M'A'R' a scale drawing.



(5) compass, straightedg

Homework

(a) Construct a scale drawing of triangle EAT using a scale factor of 4 (r = 4) and label the drawing E'A'T'



Intestine (right posterior trunk) Intestine (right posterior trunk) Intertion (right posterior t	Homework			
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□ (a) How do scale drawings help people travel?				
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