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	Name: Class:	
	Scale drawings word problems	
a.	Charles drew the scale of a building and its parking lot. He used the scale 100 inch	: 8
	feet. In the drawing, the parking lot is 500 inches long. What is the length of the	
	actual parking lot.	
	write the scale of the drawing as a fraction.	
	100 inch(in) is to 8 feet (ft) = 100in/8ft	
	use proportional releationship to solve this problem	
	if 100in is to 8ft	
	then 500in is to 500in x 8ft = 40ft	
	100 in	
	Therefore, the actual parking lot is 40ft.	
b.	Mr. Freddy is an architect. He measured the length of the road and made a scale	
	drawing. 1 inch represents 30 miles in the scale of the drawing. If the length of the	roa
	in real life is 600 miles, what is the length of the road in the drawing?	
	write the scale of the drawing as a fraction.	
	1 inch(in) is to 30 miles(mi) = 1in/30mi	
	use proportional releationship to solve this problem	
	if 1in is to 30mi	
	then 600mi is to 600mi x 1in = 20 in	
	30mi	
	Therefore, the length of the road in the drawing is 20 inches.	
c.	Peter is a very gifted artist. He designed a bridge in a drawing with a scale of 1 incl	<u> </u>
	is to 25 miles. In the drawing, the length of the bridge is 20 inches, what is the len	gth
	of the bridge in real life?	
	write the scale of the drawing as a fraction.	=
	1 inch(in) is to 25 miles = 1in/25mi	
	use proportional releationship to solve this problem	
	if 1in is to 25mi	
	then 20mi is to 25mimi x 20in = 500 miles	14
	1in	
	Therefore, the length of the bridge in real life is 500 miles.	
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