Math 1 - Unit Conversion Assignment#24	Name:	_Per:
Use dimensional analysis to convert the measurements. 1) Convert 8 milliliters to fluid ounces. Use $1 \text{mL} \approx 0.034 \text{fl}$ oz.	2) Convert 12 kilograms to pounds. Use $1 \text{kg} \approx 2.2 \text{ lb}$.	
3) Convert 950 US dollars to British pounds sterling. Use 1 US	dollar = 0.62 British pound sterling.	
4) The dwarf sea horse <i>Hippocampus zosterae</i> swims at a rate of minute.	f 52.68 feet per hour. Convert this speed to in	ches per
Use dimensional analysis to determine which rate is greater. 5) Tortoise A walks 52.0 feet per hour and tortoise B walks 12 in	nches per minute. Which tortoise travels faste	er? Explain.

6) The pitcher for the Robins throws a baseball at 90.0 miles per hour. The pitcher on the Bluebirds throws a baseball 121

feet per second. Which pitcher throws a baseball faster? Explain.

7) For a science experiment Marcia dissolved 1.0 kilogram of salt in 3.0 liters dissolved 2.0 pounds of salt in 7.0 pints of water. Which person made a more Use $1L=2.11$ pints. Round your answer to the nearest hundredth.	of wa conce	ter. l entrat	For a ed sa	diffe	rent e ution	experin ? Expla	nent, F ain.	Bobby
8) Will a stand that can hold up to 40 pounds support at 21-kilogram television	n? Ex	plain	. Use	2.21	b. = 1	l kg.		
Find the unit rate, create scale on the x- and y-axes, and then graph the fu 9) Brianna bought a total of 8 notebooks and got 16 free pens.	nctio	n.						
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10) Mason sold 10 wristbands and made a total of 5 dollars.								
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