## **10/03/2024** – **Proportional Relationships**

**Review of Unit 3 for Grade 7 and 8 Math (7A and 8PA) – Fun theme: Cooking** Questions to follow along with show. Watch: Math Homework Hotline

1)	The table below	show	s tha n	umber	of nizz	as Fric	2)	One pound	ofhanar	as costs	75 cente	Tomake	
1)	will need to bak people going to he need for 50 p	ending arty. Ho ? (MA.:	on the ow mar 7.AR.4.	numbo numbo ny pizza .5)	er of as will	2)	2) One pound of bananas costs 75 cents, to mak banana bread, Sean spent \$21.50 on his groce run for only bananas. How many pounds of bananas did he get? Round to the nearest tent if necessary. (MA.7.AR.4.5)					y IS,	
	Pizzas	1	3	5	7								
	Number of People	4	12	20	28	]							
3)	In 2023, Hilda E global record fo cooking as she 25 liters of wate how many cups Note: 1 liter = 4	Baci, a or the lo cooke er to m s of wa .23 cu	Nigeria ongest d for 10 ake he ter did os (MA	an chef hours 00 hour r soups she us .7.AR.3	, set a of nons rs. If sh s and s e? 3.3)	new stop ie used tews,	4)	Glenda drives from London to Poland to watch the filming of a Chopped episode. She notices the speed limit signs change from miles per hour (mph) to kilometers per hour (kph), but her rental car speedometer only reads in mph. If the speed limit on the highway is 100 kph, at what speed will she exceed the speed limit? Note: 1 kilometer = 0.62 miles (MA.7.AR.3.3)					
5)	Select all of the the graph, writte (MA.7.AR.4.1)	ortional criptio	l relatio ns, and	onships d table	s from given.	6) From the proportional relationship modeled in the table below, determine the constant of proportionality. (MA.7.AR.4.2)							
O (sullans)	y Ice Cream Production		<ul> <li>You decorate 10 cupcakes every hour.</li> <li>○ Mike pays \$15.15 for 3</li> </ul>					Pounds of apples purchased	2	3	5	10	
Chocolate (g	6 5 4 3 2				Maria   burger	a pays jers.		Cost	\$2.46	\$3.69	\$6.15	\$12.30	
	1 2 3 4 5 6 7 Vanilla (gallor	789 ns)	• x										
	x -5 y 15	-2 6	1 -3	4 -12	7								

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7) Which graph represents a proportional	8) Determine which linear relationship is also					
relationship? (MA.8.AR.3.1)	proportional. Justify your answer. (MA.8.AR.3.1)					
	$\bigcirc$ Circumference of a circlet $\bigcirc -\pi d$					
	Envirite Foods					
8 8						
6 6	4					
	2					
	Pt yantu a net cher Pt					
	Ø <sup>r</sup>					
	0					
0 2 4 6 8 10 0 2 4 6 8 10	Serving Size 1 2 3 4					
	Cups of Nuts 2 3 4 5					
Muito the two veriences and the two were suite	Cups of Fruit         4         6         8         10					
write the two-variable equation that represents						
the relationship. (MA.7.AR.4.4)						
9) The cost of Hass avocados is a proportional	10) Write an equation for the proportional					
relationship to the number of avocados being	relationship represented in the table below.					
nurchased. The equation $c = 2.10a$ represents	$(M \land 7 \land P \land A)$					
	(MA.7.AN.4.4)					
this relationship where c is the total cost and a is	x 1 2 4 5					
the number of Hass avocados being purchased.	5 25					
Create a graph representing this relationship.	$y = \frac{1}{2}$ 5 10 $\frac{1}{2}$					
(MA.7.AR.4.3)						