Problems of the Week
FSA Countdown Week 2 – M7

1. Marcy is comparing prices of bottled water for 16.9-ounce bottles. The table shows the price for each brand. Complete the table to sort the brands from least to greatest price per bottle. Round each unit price to the nearest thousandth dollar. 7.RP.2, 7.RP.2b

Water Bottle Prices		
Brand	**No. of Bottles in Case**	**Price ($)**
Clear Mountain	24	$11.99
Iceland Springs	12	$5.49
Nature's River	48	$20.35
Forest Air	24	$10.49
Winter Springs	48	$19.99

	Brand	**Unit Price ($ per bottle)**
Least		
Greatest		

2. Select whether the relationship between each pair of quantities is proportional. 7.RP.2, 7.RP.2a

Yes	No	
☐	☐	A small pizza costs $9.00 and each additional topping costs $0.75.
☐	☐	A health club charges $45 per month.
☐	☐	A bike rental store charges $20 as a flat fee, plus $5 per hour.
☐	☐	A bathtub holding 40 gallons of water drains at a rate of 6 gallons per minute.
☐	☐	A car travels 60 miles in 1 hour, 120 miles in 2 hours, and 180 miles in 3 hours.
☐	☐	A student earns $12 for each hour she tutors.

3.

One full batch of a recipe calls for $2\frac{1}{2}$ cups of milk.
Meadow has 4 cups of milk. Select all of the quantities that
Meadow could make with the milk she has. 7.NS.3

☐ $\frac{1}{2}$ batch

☐ $1\frac{3}{4}$ batches

☐ $\frac{3}{4}$ batch

☐ $1\frac{1}{4}$ batches

☐ 2 batches

☐ $2\frac{1}{4}$ batches

☐ $\frac{1}{4}$ batch

4.

Michael and Derek enjoy playing tennis, and before every match they
estimate how long it will take. The actual match time is always greater than
the time Michael and Derek estimate. They recorded the times for four
matches, but some of the information has been lost. Complete the table.
Round to the nearest tenth if necessary. 7.RP.3, 7.EE.3

Match	Actual Time	Estimated Time	Percent Error
1	2 hours	90 minutes	
2		1 hour	25%
3	3 hours		15%
4	150 minutes	75 minutes	