

NAME: _____

Problems of the Week

FSA Countdown Week 3 - PA

1. A company makes square poster frames whose sides are integer lengths. Select all of the areas that would satisfy this requirement. 8.EE.2

- 16 ft²
- 24 ft²
- 2.5 ft²
- 4 ft²
- 1 ft²
- 36 ft²
- 48 ft²

2. A company sells only items that are in the shape of cubes. Select all of the volumes of cubes with rational number side lengths. 8.NS.1

- 8 in³
- 33 cm³
- 1.5 ft³
- 9 ft³
- 1,000 m³
- (4.12 yd)³

3. Veronica and Abdul are having a contest to see who can mow the greater area of lawn over the course of a week. The table shows the amount each person mowed on each day. 8.NS.1

Day	Veronica	Abdul
Monday	$\frac{1}{2}$ acre	0.65 acre
Tuesday	$\frac{1}{3}$ acre	20% of an acre
Wednesday	$\frac{6}{5}$ acres	$1\frac{1}{4}$ acres
Thursday	1 acre	100.5% of an acre
Friday	0.767 acre	$\frac{19}{25}$ acre
Saturday	33.3% of an acre	$\frac{1}{3}$ acre
Sunday	0.55 acre	$\frac{13}{25}$ acre

Part A: Sort the days into the bin of the person who mowed the greater area that day.

Monday	Tuesday
Wednesday	Thursday
Friday	Saturday
Sunday	

Veronica Mowed More

Abdul Mowed More

Part B: Who won the contest?

4. A school has a 20:2 student-teacher ratio. 8.EE.5

Part A: Graph a line representing this scenario.

Part B: What is the unit rate? How is it represented in the graph?

