

NAME: \_\_\_\_\_

# Problems of the Week

## FSA Countdown Week 1 - M7

1. The table shows how much several students spent on notebooks. 7.RP.1, 7.RP.3

**Part A:** Which student paid the least per notebook? What did he or she pay?

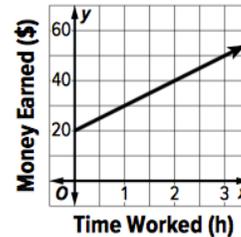
**Student:**

**Least Price per Notebook:**

Name	Number of Notebooks	Total Cost
Isaiah	4	\$16
Rebecca	3	\$10
Kendrick	5	\$19
Maria	2	\$7
Mario	7	\$32

**Part B:** Later, Isaiah and Kendrick each decided to buy 6 notebooks. How much more would Isaiah pay than Kendrick?

2. An employee describes the ratio *hours worked:money earned* by drawing a graph. Explain why this graph cannot represent a proportional relationship. 7.RP.2, 7.RP.2a



3. Simplify each expression. Then sort each expression into the appropriate bin. 7.NS.1, 7.NS.1a

$$8 \div |4|$$

$$7 + (-8) - 1$$

$$-12 + 4 - (-6)$$

$$5 - 11 + |-8|$$

$$(5 \times |-2|) - 8$$

$$-3 + 4 - |-5| + 2$$

**Opposite of -2**

**Opposite of 2**

4. Select all of the scenarios in which the initial location or measurement is equal to the final location or measurement. 7.NS.1, 7.NS.1a

- A bird travels 5 meters east, then 5 meters west, then 1 meter south.
- The temperature of water is raised  $25^{\circ}\text{C}$ , then lowered  $25^{\circ}\text{F}$ .
- An airplane is at 35,000 feet, then descends to 29,100 feet, then rises 5,900 feet.
- A baseball player throws a ball straight up 50 feet and then catches it back in his glove.
- A football is thrown from ground level and lands in a second-story balcony 15 feet high.
- A man deposits \$45 into his account. The next day, he makes 3 deposits of \$20 each. A week later, he withdraws \$105.