



Name: \_\_\_\_\_

## 2-6 Additional Practice

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In 1 and 2, determine whether you can use proportional reasoning and then solve.

- The table shows the number of Calories Jane burns while exercising. How many Calories would she burn by exercising for 29 minutes? Explain.
- It takes 3 hours for Marty and Cora to weed a garden. How long will it take 6 people to weed the same garden if they all work at the same constant rate? Explain.

**Jane's Exercise**

| Time in Minutes ( $x$ ) | Calories Burned ( $y$ ) |
|-------------------------|-------------------------|
| 20                      | 220                     |
| 25                      | 275                     |
| 30                      | 330                     |
| 40                      | 440                     |

- At a cookout, Mrs. Crawford makes  $\frac{8}{9}$  pound of chicken, plus 1 pound for each guest. Is the relationship between the number of guests and pounds of chicken proportional? Explain.

- How long will it take the jet to travel 5,880 miles?

**Passenger Jet Travel**

| Hours | 1   | 2   | 3     | 4     |
|-------|-----|-----|-------|-------|
| Miles | 490 | 980 | 1,470 | 1,960 |

- A machine can make 56 parts in 4 hours. It can also make 70 parts in 5 hours. Write an equation that relates the number of parts the machine can make and the time in hours. Predict how many parts the machine can make in 9 hours, 30 minutes.

- Look for Relationships** The table shows the relationship between a hedgehog's weight loss and the number of days it has spent in hibernation. How much weight would the hedgehog lose during 115 days in hibernation? ©MP.7

**Weight Loss of Hedgehog**

| Days in Hibernation | Loss in Weight (oz) |
|---------------------|---------------------|
| 8                   | 0.24                |
| 28                  | 0.84                |
| 75                  | 2.25                |
| 93                  | 2.79                |



**7. Higher Order Thinking** During the first week of the season, Carly averaged 27 points per basketball game. Then she went on a scoring streak. The table shows the increase in the number of points she scored per game from her Week 1 average.

**Carly's Scoring**

| Week | Increase in Points |
|------|--------------------|
| 2    | 3                  |
| 3    | 4.5                |
| 4    | 6                  |

a. If her streak continues into the fifth week, what would Carly's number of points per game be for Week 5?

b. **Be Precise** Describe how the number of points per week changes over the five weeks. © MP.6

**8. Reasoning** The table shows the numbers of home runs a baseball player hit during spring training and during the regular season for four years. How many home runs would the player likely have hit during the regular season with 3 home runs hit during spring training? Explain. © MP.2

**Home Runs**

| Spring Training | Regular Season |
|-----------------|----------------|
| 2               | 8              |
| 4               | 4              |
| 5               | 20             |
| 6               | 24             |

## © Assessment Practice

9. Sylvia and her friends mixed 6 quarts of pineapple juice and 4 quarts of sparkling water to make a fruity drink. The next week, they mixed 5 quarts of pineapple juice and 3 quarts of sparkling water.

**PART A**

Which describes the tastes of the two different batches?

- Ⓐ The first batch tastes fruitier.
- Ⓑ The second batch tastes fruitier.
- Ⓒ The two batches taste the same.
- Ⓓ There is not enough information.

**PART B**

Explain your reasoning.

