Name

## Answers

Date\_\_\_\_\_

## **Proportions Review**

Write the ratio as a fraction in simplest form.

1) 15 girls to 6 boys

5 girls 2 boys

Find the unit rate.

3) 405 rotations in 5 minutes

81 rotations

Are the ratios proportional?

- 5)  $\frac{120}{2415}$  /20 24 15 /es.
- The table shows the rates for sending text messages. Are the rates proportional? Explain.

	2
79 Messages	Cost
50	\$6
75	\$9
100	\$12

2) 24 players : 3 teams

4) 72 ounces for 12 servings

Yes. The messages + costs go up consistently through out the table. Plus, each text message costs \$0.12:

No

Use a graph to tell whether x and y are in a proportional relationship.





Solve the proportion. Show all work.

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10) 
$$\frac{2}{3} = \frac{n}{12}$$
   
11)  $\frac{33}{p} = \frac{3}{28}$    
12)  $\frac{k}{6} = \frac{15}{18}$    
13)  $\frac{2}{3} = \frac{3}{q}$    
13)  $\frac{2}{3} = \frac{3}{q}$ 

Graph the line that passes through the two points. Then find the slope of the line.



16) Your baseball team has won 6 games and lost 4 games. If the team does not lose any more games, how many games must the team win to have a win : loss ratio of 2 : 1? Explain your answer.

17) It costs \$145 for 10 people to attend a concert. How much does it cost a group of 8 people?



- The graph shows the calories burned for hiking and downhill skiing.
  - a) Find the slope of each line.

c)

Skiing = 8 cal/min Hiking = 6 cal/min

b) How many more calories do you, burn per minute downhill skiing than hiking?

2 calories

How many calories would you burn if you went downhill skiing for 80 minutes?

**Calories Burned** у 400 (50, 400) 350 (60, 360) 300 (30, 240) Calories 250 200 150 (20, 120) 100 Skiing 50 Hiking 0 20 40 60 80 x 0 Minutes

8 callmin × 80 minutes = 640 calories