

Lareau Practice Test A

Write the ratio as a fraction in simplest form.

1. 15 girls to 6 boys

2. 24 players : 3 teams

Find the unit rate.

- **3.** 405 rotations in 5 minutes
- **4.** 72 ounces for 12 servings

Tell whether the ratios form a proportion.

5.
$$\frac{8}{24}$$
, $\frac{5}{15}$

6.
$$\frac{3}{7}$$
, $\frac{12}{21}$

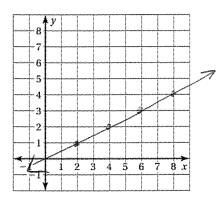
7. The table shows the rates for sending text messages. Are the rates proportional? Explain.

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

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

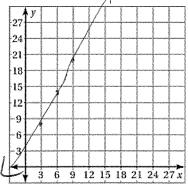
8.

x	2	4	6	8
у	1	2	3	4



9.

	X	3	6	9	12	
	У	7	13	19	25	
			1			
,	у					
•			<u> </u>			*****



Answers 5 6

- 1. 2645
- 2. Splayers to
- 3. 81 Rotation Imin
- 4. Leou. Serving
- 5. <u>4CS</u>
- 6. NO
- 7. <u>Ys</u> 3. 12 leach
 - B. See left.
- 9. <u>See left. N</u>0
- 10. \$ 30 = 5
- 11. $\frac{m}{3} = \frac{32}{4}$
- 12. <u>5</u> = 12 C

Use the table to write a proportion.

10.

	Serving	Serving
	Α	В
Servings	2	5
Calories	310	С

11.

	Saturday	Sunday
Minutes	m	32
Miles	3	4

12. You can buy 5 stickers for \$3. Write a proportion that gives the cost c if you buy 12 stickers.

Chapter

Lareau Practice Test A (continued)

Solve the proportion.

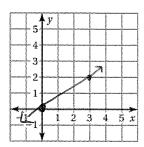
13.
$$\frac{2}{3} = \frac{n}{12}$$

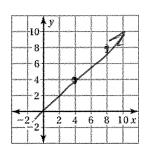
13.
$$\frac{2}{3} = \frac{n}{12}$$
 14. $\frac{33}{p} = \frac{3}{28}$ **15.** $\frac{k}{6} = \frac{15}{18}$ **16.** $\frac{2}{3} = \frac{3}{q}$

15.
$$\frac{k}{6} = \frac{15}{18}$$

16.
$$\frac{2}{3} = \frac{3}{q}$$

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





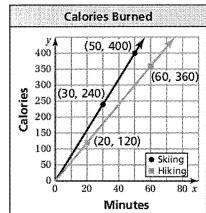
Tell whether x and y show direct variation. Explain your reasoning.

20.
$$y + x = 1$$
 21. $\frac{y}{7} = \frac{2}{x}$

21.
$$\frac{y}{7} = \frac{2}{x}$$

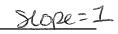
22. Your baseball team has won 6 games and lost 4 games. If the team does not lose any more games, how many games must the team win to have a win: loss ratio of 2:1? Explain your answer.

- 23. It costs \$145 for 10 people to attend a concert. How much does it cost a group of 8 people? \$116
- **24.** The graph shows the calories burned for hiking and downhill skiing.
 - **a.** Find the slope of each line.
 - **b.** How many more calories do you burn per minute downhill skiing than hiking?
 - c. How many calories would you burn if you went downhill skiing for 80 minutes?



Answers

- 16. 9 = 4.5
- 17. See left.
- See left.



- No
- 22. See left.
- 24. a.

Ski = Slope 8 Inke = Slope le Labories () 640 calories.