

Proportions Review

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

Are the ratios proportional?

- 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

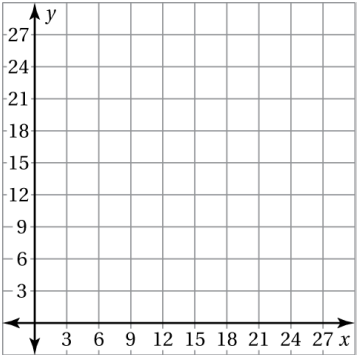
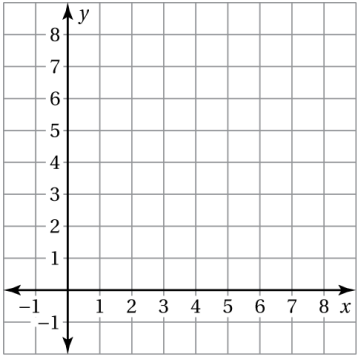
Use a graph to tell whether x and y are in a proportional relationship.

8)

x	2	4	6	8
y	1	2	3	4

9)

x	3	6	9	12
y	7	13	19	25



Solve the proportion. Show all work.

10) $\frac{2}{3} = \frac{n}{12}$

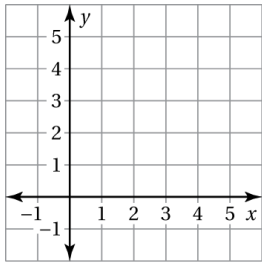
11) $\frac{33}{p} = \frac{3}{28}$

12) $\frac{k}{6} = \frac{15}{18}$

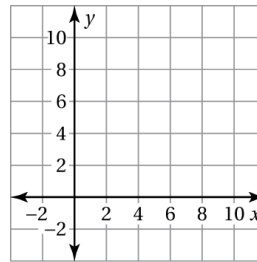
13) $\frac{2}{3} = \frac{3}{q}$

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

14) $(0, 0), (3, 2)$



15) $(4, 4), (8, 8)$



- 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?

18) 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?

