

5.2 Practice A

Tell whether the ratios form a proportion.

1. $\frac{1}{4}, \frac{3}{12}$

2. $\frac{1}{7}, \frac{4}{28}$

3. $\frac{2}{5}, \frac{30}{80}$

4. $\frac{18}{24}, \frac{15}{20}$

5. $\frac{35}{16}, \frac{5}{2}$

6. $\frac{5}{7}, \frac{35}{49}$

7. $\frac{15}{21}, \frac{40}{56}$

8. $\frac{33}{63}, \frac{26}{42}$

9. $\frac{54}{10}, \frac{81}{15}$

Tell whether the two rates form a proportion.

10. 8 feet in 15 seconds; 16 feet in 40 seconds

11. 28 people in 4 rooms; 63 people in 9 rooms

12. 14 girls to 6 boys; 35 girls to 15 boys

13. 45 marbles in 9 bags; 150 marbles in 36 bags

14. You can run 4 laps in 10 minutes. Your friend can run 6 laps in 15 minutes. Are these rates proportional? Explain.

Tell whether the ratios form a proportion.

15. $\frac{7}{4}, \frac{17.5}{10}$

16. $\frac{1.5}{6}, \frac{2}{8}$

17. $\frac{8}{5}, \frac{68}{45}$

18. You get \$27 to spend at the mall for doing 6 chores. Your friend gets \$36 for doing 8 chores.

a. What is your pay rate?

b. What is your friend's pay rate?

c. Are the pay rates equivalent? Explain.

19. You can buy 4 tickets for \$75 or 5 tickets for \$94. Are the costs proportional? If not, rewrite one of the rates so the costs are proportional.

20. A recipe requires a ratio of 4 potatoes to 6 carrots. You accidentally use 5 potatoes with 6 carrots. What is the least number of potatoes and carrots that you can add to get the correct ratio of potatoes to carrots?