



Vocabulary and Concept Check

- 1. VOCABULARY What does it mean for two ratios to form a proportion?
- 2. VOCABULARY What are two ways you can tell that two ratios form a proportion?
- 3. **OPEN-ENDED** Write two ratios that are equivalent to $\frac{3}{5}$.
- 4. WHICH ONE DOESN'T BELONG? Which ratio does not belong with the other three? Explain your reasoning.



Practice and Problem Solving

Tell whether the ratios form a proportion.

5.
$$\frac{1}{3}$$
, $\frac{7}{21}$

6.
$$\frac{1}{5}$$
, $\frac{6}{30}$

7.
$$\frac{3}{4}$$
, $\frac{24}{18}$

8.
$$\frac{2}{5}$$
, $\frac{40}{16}$

9.
$$\frac{48}{9}$$
, $\frac{16}{3}$

10.
$$\frac{18}{27}$$
, $\frac{33}{44}$

11.
$$\frac{7}{2}$$
, $\frac{16}{6}$

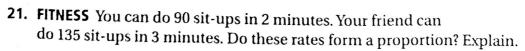
12.
$$\frac{12}{10}$$
, $\frac{14}{12}$

Tell whether x and y are proportional.

2 13.	X	1	2	3	4
	У	7	8	9	10

Tell whether the two rates form a proportion.

- 3 15. 7 inches in 9 hours; 42 inches in 54 hours
 - 16. 12 players from 21 teams; 15 players from 24 teams
 - 17. 440 calories in 4 servings; 300 calories in 3 servings
 - 18. 120 units made in 5 days; 88 units made in 4 days
 - 19. 66 wins in 82 games; 99 wins in 123 games
 - 20. 68 hits in 172 at bats; 43 hits in 123 at bats



22. HEART RATES Find the heart rates of you and your friend. Do these rates form a proportion? Explain.

