

Practice A

For use with pages 457–464

The girls' soccer team won 10 games and lost 2, and the boys' soccer team won 12 games and lost 3.

1. What is the ratio of the girls' wins to their losses?
2. What is the ratio of the boys' wins to their losses?
3. What is the ratio of the girls' wins to the total number of games played?
4. What is the ratio of the boys' wins to the total number of games played?
5. Which team had the greater winning ratio?

Simplify the ratio.

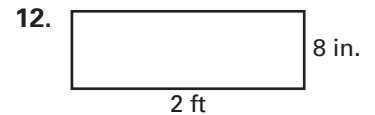
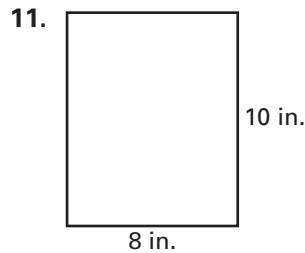
6. $\frac{6 \text{ yards}}{12 \text{ yards}}$

7. $\frac{14 \text{ trucks}}{7 \text{ trucks}}$

8. $\frac{16 \text{ people}}{24 \text{ people}}$

9. $\frac{32 \text{ meters}}{24 \text{ meters}}$

Find the width to length ratio of each rectangle. Then simplify the ratio.



Rewrite the fraction so that the numerator and denominator have the same units. Then simplify.

13. $\frac{2 \text{ yd}}{24 \text{ in.}}$

14. $\frac{60 \text{ mm}}{1 \text{ cm}}$

15. $\frac{40 \text{ g}}{1 \text{ kg}}$

16. $\frac{20 \text{ ft}}{3 \text{ yd}}$

17. $\frac{3 \text{ lb}}{12 \text{ oz}}$

18. $\frac{5 \text{ weeks}}{30 \text{ days}}$

19. $\frac{85 \text{ cm}}{0.5 \text{ m}}$

20. $\frac{2 \text{ mi}}{60 \text{ ft}}$

Solve the proportion.

21. $\frac{x}{3} = \frac{10}{15}$

22. $\frac{y}{10} = \frac{2}{5}$

23. $\frac{20}{30} = \frac{m}{120}$

24. $\frac{4}{x+2} = \frac{16}{x+5}$

25. $\frac{3}{y-2} = \frac{15}{y}$

26. $\frac{2}{y-3} = \frac{3}{y}$

27. On an N-gauge model train set, a tank car is 3.75 inches long. An actual tank car is 50 feet long. What is the ratio of the length of the actual car to the length of the model tank car?