

Lesson 24 • Reducing Fractions, Part 2

Power Up

- **Facts**
- **Mental Math**
- **Problem Solving**

New Concepts

- **Examples**
- **Practice Set**

Written Practice

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Facts

Reduce each fraction to lowest terms.

$\frac{50}{100} = \frac{1}{2}$	$\frac{4}{16} = \frac{1}{4}$	$\frac{6}{8} = \frac{3}{4}$	$\frac{8}{12} = \frac{2}{3}$	$\frac{10}{100} = \frac{1}{10}$
$\frac{8}{16} = \frac{1}{2}$	$\frac{20}{100} = \frac{1}{5}$	$\frac{3}{12} = \frac{1}{4}$	$\frac{60}{100} = \frac{3}{5}$	$\frac{9}{12} = \frac{3}{4}$
$\frac{6}{9} = \frac{2}{3}$	$\frac{90}{100} = \frac{9}{10}$	$\frac{5}{10} = \frac{1}{2}$	$\frac{12}{16} = \frac{3}{4}$	$\frac{25}{100} = \frac{1}{4}$
$\frac{4}{10} = \frac{2}{5}$	$\frac{4}{6} = \frac{2}{3}$	$\frac{75}{100} = \frac{3}{4}$	$\frac{4}{12} = \frac{1}{3}$	$\frac{6}{10} = \frac{3}{5}$

Written Practice

1. $3026 - 2895 = D$; 131 miles
2. $15 \times 24 = M$; 360 microprocessors
3. a. $\frac{3}{4}$
b. \$22.50 $\frac{1}{4}$ not spent $\left\{ \begin{array}{l} \$30.00 \\ \$7.50 \\ \$7.50 \\ \$7.50 \\ \$7.50 \end{array} \right.$
 $\frac{3}{4}$ spent
4. a. 18 inches
b. Sample answer: I know a radius is half the length of a diameter and that one yard equals 36 inches. Therefore the radius is half of 36 inches, or 18 inches.
5. 20 steps

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Written Practice

continued

6. a. 8
b. 24

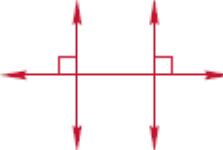
7. a. $\frac{1}{3}$
b. $\frac{1}{3}$

8. a. $\frac{9}{10}$
b. 60

9. a. acute angle
b. right angle
c. obtuse angle

10. a. Equivalent fractions are formed by multiplying or dividing a fraction by a fraction equal to 1. To change from fifths to thirtieths, multiply $\frac{3}{5}$ by $\frac{6}{6} \cdot \frac{3}{5} = \frac{18}{30}$
b. Identity Property of Multiplication

11. a. $2^4 \cdot 5^4$
b. $100 = 2^2 \cdot 5^2$

12. a. 
b. right angles

Written Practice

continued

13. a. 9 inches
b. 81 square inches
14. Commutative Property
15. A
16. See student work. Sample: Twelve cans of juice cost \$3.36. What is the cost for each can? The cost for each can is $\$3.36 \div 12$, or \$0.28.
17. $3\frac{1}{2}$
18. $6\frac{1}{2}$
19. 10^3 or 1000
20. -1

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Written Practice

continued

21. $33\frac{1}{3}\%$

22. $3\frac{1}{4}$

23. $\frac{25}{36}$

24. $\frac{1}{3}$

25. heptagon

26. a. 1000

b. -90

c. $\frac{1}{10}$

27. a. 90 yards

b. Sample: To find the missing measure of the bottom of the figure I added the measures of the opposite side $10 + 10 = 20$, so the missing measure was 20 yards. To find the missing measure of the top part I subtracted the right side's measure from the left side's measure: $25 - 20 = 5$ yards.

28. $\frac{3}{12} + \frac{2}{12} = \frac{5}{12}$

29. $\angle DAC$ and $\angle BCA$ (or $\angle CAD$ and $\angle ACB$);
 $\angle DCA$ and $\angle BAC$ (or $\angle ACD$ and $\angle CAB$)

Written Practice

continued

- 30.** a. $-1, -\frac{1}{2}, 0, \frac{1}{2}, 1$
b. $1\frac{1}{2}, 2, 2\frac{1}{2}$

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