Lesson 63 • Rational Numbers, Non-Terminating Decimals, and Percents • Fractions with Negative Exponents

Power Up

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

New Concepts

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

Written Practice

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Facts Express each percent as a reduced fraction.

$1\% = \frac{1}{100}$	$100\% = 1$	$50\% = \frac{1}{2}$	$70\% = \frac{7}{10}$	$20\% = \frac{1}{5}$
$150\% = 1\frac{1}{2}$	$66\frac{2}{3}\% = \frac{2}{3}$	$5\% = \frac{1}{20}$	$12\frac{1}{2}\% = \frac{1}{8}$	$90\% = \frac{9}{10}$
$25\% = \frac{1}{4}$	$2\% = \frac{1}{50}$	$10\% = \frac{1}{10}$	$33\frac{1}{3}\% = \frac{1}{3}$	$4\% = \frac{1}{25}$
$40\% = \frac{2}{5}$	$16\frac{2}{3}\% = \frac{1}{6}$	$75\% = \frac{3}{4}$	$30\% = \frac{3}{10}$	$80\% = \frac{4}{5}$

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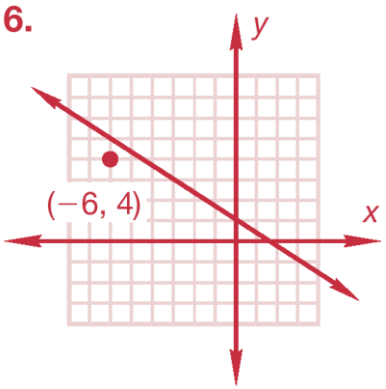
Written Practice

1. 18 vases
2. 560
3. 15 dimes
4. a. mean: 2.6, median: 3.0, mode: 1.8, range: 1.8
   b. The median because it is the greatest of the central measures.
5. ∠7
6. no
7. a. $\frac{5}{6}$, $0.8\overline{3}$
   b. 0.83

6.



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Written Practice *continued*

8. a. $0.\overline{4}$, $44\frac{4}{9}\%$

b. 0.444

9. a. $\{R_1R_2, R_1W, R_1B, R_2W, R_2B, WB\}$

b. $p = \frac{5}{6}$

c. "no red marbles," or "white and blue;" $p = \frac{1}{6}$

10. 21 in.

11. 96 in.^{2}

12. a. 157 ft^2

b. 51.4 ft

13. $\frac{\text{1 math problem}}{\text{min}}$

14. $2460 \text{ in.} \times \frac{1 \text{ ft}}{12 \text{ in.}} = 205 \text{ ft}$

15. a. $7(m^2 - 7)$

b. $x^3(x - 4)$

16. -3

17. $4c$

18. $\frac{5}{6}$

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Written Practice *continued*

19. 0.02

20. $x = 45$

21. $x = -2$

22. $x = 10$

23. $x = 4, -4$

24.

25. C

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