SAXON MATH

Lesson 62 • Graphing Solutions to Inequalities on a Number Line

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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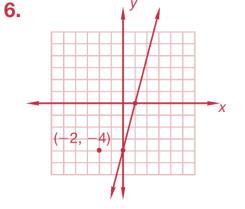
Written Practice

- 1. 72 in.
- 2. 27 not preserved



b. 2 cm 2 cm

c. 8 cm³, 8



- **4.** mean: 303, median: 303, mode: 310
- 5. $x = 135^{\circ}$
- 6. no
- 7. The smaller wheel turns twice

- 8. a. 18 yd², 22 yd
 - b. trapezoid
- 9. 10 m/sec
- 10. $300 \text{ min} \cdot \frac{1 \text{ hr}}{60 \text{ min}} = 5 \text{ hr}$
- **11.** a. {BB, BR, BW, RB, RR, RW, WB, WR, WW}
 - b. $\frac{1}{3}$
- **12.** a. $\frac{1.25}{5}$ b. $\frac{5}{4}$ or 17



Main Menu



AXON MATH

Written Practice

continued

A 10-foot long 1×6 is long enough. With a calculator we can **13.** find that the diagonal (hypotenuse) is less than 116 inches, which is less than 10 feet (120 in.). Without a calculator we find that a 10-foot diagonal from an 8-foot (96 in.) wall will reach 6 feet (72 in.). However, the diagonal only needs to reach 64 inches, so a10-foot board is more than long enough.

16.

15. 2*e*

20.
$$x = -3$$

24.



22. a.
$$y = \frac{1}{2}x - 1$$

17.
$$x^2 - 4$$

b.
$$y = -2x + 4$$

18.
$$x = 1$$

19.
$$x = 1010$$







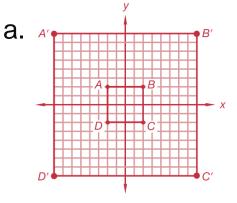


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Written Practice

continued

25. a



b. A'(-8, 8), B'(8, 8), C'(8, -8), and D'(-8, -8)

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