Lesson 58 • Symmetry

Power Up

– ***Facts***

– ***Mental Math***

– ***Problem Solving***

New Concepts

– ***Examples***

– ***Practice Set***

Written Practice

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Facts Simplify each power or root.

$\sqrt{100} = 10$	$\sqrt{16} = 4$	$\sqrt{81} = 9$	$\sqrt{4} = 2$	$\sqrt{144} = 12$
$\sqrt{64} = 8$	$\sqrt{49} = 7$	$\sqrt{25} = 5$	$\sqrt{9} = 3$	$\sqrt{36} = 6$
$8^2 = 64$	$5^2 = 25$	$3^2 = 9$	$12^2 = 144$	$10^2 = 100$
$7^2 = 49$	$2^3 = 8$	$3^3 = 27$	$10^3 = 1000$	$5^3 = 125$

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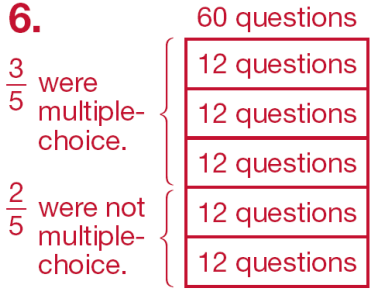
Written Practice

1. 14 kilometers
2. $3.75
3. 37
4. a. $\frac{1}{3}$
   b. $\frac{3}{4}$
   c. 25%
5. 123
6. a. 36 questions
   b. 40%

6.



7. a. $\overline{OA}$, $\overline{OB}$, $\overline{OC}$
   b. $\overline{AC}$ (or $\overline{CA}$), $\overline{BC}$ (or $\overline{CB}$)
   c. 60°
   d. 30°
8. a. 15,000,000
   b. 0.00025
   c. $\frac{1}{10}$ or 0.1
   d. 1

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Written Practice *continued*

9. <

10. 19

11. 5, 0, -5

12.

Fraction	Decimal	Percent
$\frac{1}{6}$	**a.** $0.1\overline{6}$	**b.** $16\frac{2}{3}\%$
c. $\frac{4}{25}$	**d.** 0.16	16%

13. a. To find *y*, multiply *x* by 4.

b. 8

c. $y = 4x$

14. a. 55°

b. 125°

c. 20°

15. a. (3, 2)

b. 9 units²

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Written Practice *continued*

16. a. 5 lines

b. Yes. As the pentagon is rotated, it shows itself in its original orientation five times before one full rotation or turn is completed, after 72°, 144°,216°, 288°, and 360°.

17. a. $3\frac{1}{2}$ hours

b. 3 hours

18. 10

19. 1.53

20. 909

21. 0

22. 3 gal 1 qt

23. 18 hr 45 min

24. 10,560 ft

25. $6\frac{1}{12}$

26. $3\frac{1}{2}$

27. 5

28. 0

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Written Practice *continued*

29. a. $2.5, 2, \frac{3}{2}, 0.\overline{2}, 0, -\frac{1}{2}, -1$

b. $-1, 0, 2$

30. Lindsey could double both numbers before dividing, forming the equivalent division problem 70 ÷ 5. She could also double both of these numbers to form 140 ÷ 10.

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