

Lesson 57 • Operations with Small Numbers in Scientific Notation

Power Up

- Facts
- Mental Math
- Problem Solving

New Concepts

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Facts

Write each number in scientific notation.

$$186,000 = 1.86 \times 10^5$$

$$0.0002 = 2 \times 10^{-4}$$

$$2,050,000 = 2.05 \times 10^6$$

$$\frac{1}{1,000,000} = 1 \times 10^{-6}$$

$$15 \text{ million} = 1.5 \times 10^7$$

$$12 \text{ thousandths} = 1.2 \times 10^{-2}$$

Write each number in standard form.

$$3 \times 10^5 = 300,000$$

$$1 \times 10^{-3} = 0.001$$

$$3.75 \times 10^4 = 37,500$$

$$3.5 \times 10^{-5} = 0.000035$$

$$4.05 \times 10^3 = 4050$$

$$2.04 \times 10^{-2} = 0.0204$$

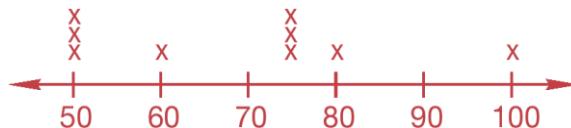
Written Practice

1. 27,600

2. 219 days

3. 12 problems

4. a.



b. range \$50; mean \$68; median \$75; mode \$50 and \$75

c. The most common amounts that people donated were \$50 and \$75.

5. $x = 9$

7. a. {AA, AA, AA, AA, AB, AB, AC, AC, BA, BA, BB, BC, CA, CA, CB, CC}

6. 30°

b. $\frac{12}{16} = \frac{3}{4}$

Written Practice

continued

8. yes

9. $m = 2$

10. $x = 9$

11. $x = \frac{1}{4}$

12. $p = -1$

13. 19 m

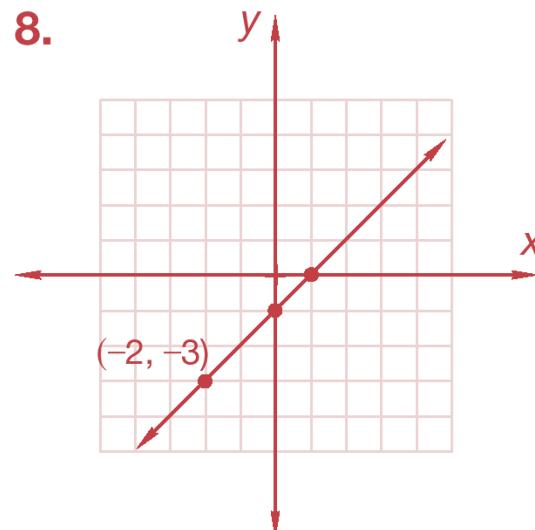
14. 14 m^2

15. $x^2 + 4x + 4$

16. $\frac{1}{4} = \frac{1}{4}$

17. a. 325 mi

b. 65 mi/hr

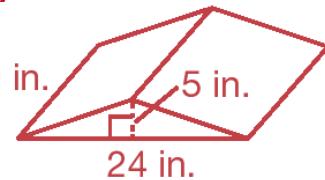


Written Practice

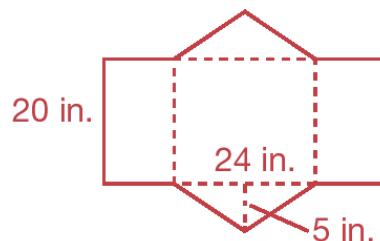
continued

18. 1760 yd

19. a.



b.



20. a. 1200 in.^3

b. 1120 in.^2

21. $\frac{r^2}{m}$

22. $\frac{2}{3} = \frac{2}{3}$

23. a. $91\frac{2}{3}\%$;

b. $0.91\bar{6}$

24. B

25. a. Sample space = {AA, AB, AC, BA, BB, BC, CA, CB, CC}

b. $\frac{5}{9}$
c. $\frac{4}{9}$

26. -2

27. a. $y = x + 2$

b. $y = x - 2$

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

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Written Practice

continued

29. $x = 2, -2$

30. a. A

b. B

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