

## Chapter 1 Practice Test

1. What is an integer?

A segment has endpoints with the given coordinates on a number line. Find the length and midpoint of the segment.

2. 34 and 108

3. -55 and 27

Perform the indicated operations. Remember to reduce fractions.

4.  $|20 - 36|$

5.  $(-2)^3$

6.  $-7.25 + 9.1$

7.  $(1.2)(-0.03)$

8.  $\frac{1}{8} + \frac{2}{5}$

9.  $3\frac{5}{8} + 5\frac{1}{2}$

10.  $12\frac{7}{8} - 3\frac{1}{5}$

11.  $11 - 7\frac{2}{5}$

12.  $2\frac{1}{3} \cdot 3\frac{3}{7}$

13.  $2\frac{1}{2} \div 1\frac{1}{9}$

14.  $(-4)(3)(-7)$

15.  $\frac{123}{0}$

16.  $\frac{-783}{87}$

17.  $-42.6 \div 0.3$

18.  $-15.75 \div (-7.5)$

19.  $\frac{0.954}{0.3}$

$$20. \left(\frac{2}{7}\right)^2$$

$$21. 7^0$$

$$22. 3^{-2} \cdot 3^4 \cdot 3^{-5}$$

$$23. |-42| - |50|$$

$$24. -18 - (-22)$$

$$25. \frac{3}{4} \left(\frac{8}{27}\right)$$

$$26. 5 + 2 \cdot 8 \div 4 - 11$$

$$27. \frac{1}{15} \div \frac{3}{5}$$

$$28. 3 - (4 + 2^2 \cdot 3) - 2(7 - 4)^2$$

$$29. (3 + 5)(4 + 6)$$

$$30. 4(2 \cdot 3)^2$$

$$31. 10 - 4 \div 2 + 1$$

$$32. 10 + 2 \cdot 3 + 4^2$$

$$33. 11[7 + 3(4 \cdot 6)]$$

Simplify, leaving each answer in exponential form with positive exponents.

$$34. w^4 \cdot w^3$$

$$35. 3^{-2}$$

$$36. \frac{2^{10}}{2^7}$$

$$37. (m^4)^{12}$$

$$38. \frac{10^8}{10^5}$$

Evaluate each expression for  $x = -4$ ,  $y = 2$ ,  $z = \frac{1}{2}$ .

$$39. 5x^2z$$

$$40. y^2 - 3y + 6$$

$$41. |y - x|$$