

Chapter 1 Test Review

Pre-Algebra

Know what an integer is

Place integers in order from smallest to largest

Simplify absolute value expressions

Add, subtract, multiply, and divide integers

Write expressions using exponents

Write numbers in scientific notation

Use the Order of Operations to simplify expressions

Practice:

1. Compare by using $<$ or $>$.

a. -11 _____ -15

b. 26 _____ -12

c. -8 _____ -2

2. Simplify.

a. $|-6|$

b. $-|-4|$

c. $|13 - 5|$

d. $|4 - 7|$

3. Add.

a. $19 + (-6)$

b. $-25 + (-12)$

c. $23 + (-11) + 4$

d. $116 + (-85)$

4. Subtract.

a. $-8 - (-2)$

b. $17 - 5$

c. $32 - 15 - (-3)$

d. $-27 - 16$

5. Multiply.

a. $7(-12)$

b. $-5 \cdot (-6)$

c. $-24(18)$

d. $-172(-4)$

6. Divide.

a. $\frac{-2}{3}$

b. $-48 \div (-4)$

c. $\frac{138}{-3}$

7. Write in exponential form without fractions.

a. $n \cdot n \cdot n \cdot n$

b. $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

c. $\frac{1}{p \cdot p}$

8. Write in expanded form. Simplify if possible.

a. $x^3 y^2$

b. $(-4)^2$

c. 2^{-3}

9. Simplify.

a. $x^7 \cdot x^5$

b. $y^4 \div y$

c. $\frac{b^8}{b^5}$

d. $\frac{m^6 \cdot m^4}{m^8 \cdot m^2}$

10. Simplify.

a. $7 + 4 \times 5$

b. $13 - 2(3)$

c. $8(11 + 4)$

d. $16 + [33(21 - 13)]$

e. $\frac{32}{4} + 3(6) - 15$

f. $50 - [(4 - 2)(16 + 3)]$

11. Write the numbers in scientific notation.

a. 42,000

b. 0.00167

12. Write the numbers in standard form.

a. 5.23×10^5

b. 9.4×10^{-3}