

Name _____

Instructor _____

Date _____

SHOW YOUR WORK!

The skills needed to complete this worksheet are required for our work in Chapter 5. Please seek help as soon as possible if you have difficulty completing any of these sections.

Learning Objectives

- A. Find the place value of a digit in a whole number.
- B. Write a whole number in words and in standard form.
- C. Round whole numbers.
- D. Write fractions in simplest form.
- E. Add, subtract, multiply, and divide whole numbers, integers, and fractions.
- F. Simplify algebraic expressions.
- G. Solve equations containing integers and fractions.

OBJECTIVE A: Find the place value of a digit in a whole number. (See Examples 1–3, p. 7)

1. Determine each place value.

- a) What is the place value of the digit 6 in the whole number 26,891?
- b) What is the place value of the digit 0 in the whole number 8,306?

OBJECTIVE B: Write a whole number in words and in standard form. (See Examples 4–11, p. 8–9)

2. Write each number in words.

- a) 3,072
- b) 135,060

3. Write each number in standard form.

- a) Forty-eight thousand thirty-two
- b) Seven thousand six

OBJECTIVE C: Round whole numbers. (Read page 30 and Examples 1–3, p. 31)

4. Round each number to the given place value.

- a) Round 2,587 to the nearest hundred.
- b) Round 316,760 to the nearest ten thousand.
- c) Round 4,281 to the nearest ten.
- d) Round 37,397 to the nearest thousand

OBJECTIVE D: Write fractions in simplest form. (See Section 4.2)

5. Simplify.

- a) $\frac{16}{10}$
- b) $\frac{-60}{150}$
- c) $\frac{24}{100}$
- d) $\frac{-21}{-91}$

OBJECTIVE E: Add, subtract, multiply, and divide whole numbers, integers, and fractions.

6. Add or subtract.

a) $23,582 - 40,000$

c) $23 + (-19) + (-8)$

b) $-46 - 54$

d) $\frac{4}{5} - \frac{7}{10}$

7. Multiply or divide.

a) $-6 \div \frac{3}{10}$

c) $-\frac{9}{20} \cdot \frac{5}{36} \cdot \frac{4}{15}$

b) $826 \cdot 1000$

d) $7070 \div 14$

OBJECTIVE F: Simplify algebraic expressions.

Simplify each expression.

8. $42 + 87x - 19 - 33x$

9. $-5(x - 8) - 10x$

10. $7x - 4(5 + x) + 35$

11. $6a - 9a - a - 12$

OBJECTIVE G: Solve equations containing integers and fractions.

Solve each equation.

12. $3 + 2(2x - 8) = 15$

13. $-3x + 7 = -14$

14. $3x - \frac{2}{5} = 2x + \frac{1}{10}$

15. $-14 - 3x + 2 = 2x - x$