

Name _____

Instructor _____

Date _____

SHOW YOUR WORK!

The skills needed to complete this worksheet are required for our work in Chapter 7. Please seek help as soon as possible if you have difficulty completing any of these sections.

Learning Objectives

- A. Write decimals as fractions simplest form.
- B. Round decimals to a given place value.
- C. Write fractions as decimals.
- D. Multiply and divide by powers of ten.
- E. Find an unknown number in a proportion.
- F. Solve applications that require multiplication of fractions.

OBJECTIVE A: Write decimals as fractions in simplest form. (See Section 5.1)

Write each decimal as a fraction or a mixed number in simplest form.

1. 0.48
2. 0.275
3. 12.4
4. -0.18

OBJECTIVE B: Round decimals to a given place value. (See Section 5.1)

5. Round each decimal to the given place value.

- a) 79.5396; nearest thousandth
- b) 0.3578; nearest tenth
- c) 3.834; nearest hundredth
- d) 253.295 to the whole number

OBJECTIVE C: Write fractions as decimals. (See Section 5.5)

Write each fraction as a decimal. Round repeating decimals to the nearest thousandth.

6. $\frac{7}{25}$
7. $-\frac{3}{8}$
8. $\frac{5}{12}$
9. $\frac{7}{11}$
10. $-3\frac{3}{5}$
11. $\frac{9}{20}$

OBJECTIVE D: Multiply and divide by powers of ten. (See Sections 5.3 and 5.4)

12. Perform each indicated operation.

a) $\frac{362}{100}$

b) $\frac{4.5}{1000}$

c) $1.25 \cdot 0.01$

d) $1.02 \cdot 100$

OBJECTIVE E: Find an unknown number in a proportion. (See Section 6.2)

Solve each proportion.

13. $\frac{n}{3} = \frac{2.5}{1.5}$

14. $\frac{3}{5} = \frac{x}{20}$

15. $\frac{4}{9} = \frac{12}{x}$

16. $\frac{x}{16} = \frac{6}{4.8}$

OBJECTIVE F: Solve applications that require multiplication of fractions.

Solve each problem. Write the answer in simplest form where necessary.

17. A warehouse stores 520 different inventory items. If $\frac{4}{5}$ of these items are perishable, how many items are perishable?

18. Jenna has a student loan of \$6400. If she has paid off $\frac{5}{8}$ of the loan, how much has she paid off? How much does she still owe?