

NAME \_\_\_\_\_

DATE \_\_\_\_\_

MAT0012

STUDY SKILLS ASSIGNMENT

### TEST 4: NOTE TAKING

CHOOSE ONE OF THE FOLLOWING OPTIONS.

#### OPTION 1: STRATEGY SEMINAR

Attend the Strategy Seminar "Note Taking Strategies" in ETA230. Verify your attendance by having the presenter sign your homework and lab assignment sheet in the appropriate section. (Students enrolled in 12-week or "Express" terms may substitute another seminar. The Strategy Seminar schedule is available online at <http://www.pbcc.edu/x4166.xml>.)

#### OPTION 2: TAKING NOTES FROM A MATH TEXT

Complete the activity below and attach all work to this assignment sheet.

- 1) Read **Section 5.5** of the **Prealgebra** text, **Fractions, Decimals, and Order of Operations**, pages 377–385.

**Survey** Section 5.5:

- Read the title and bold-faced objectives.
- Read the instructions (not the solutions) for the examples.
- Read all information the author has highlighted in purple boxes.

**Survey** the homework for Section 5.5:

- Read the directions for the assigned homework problems.
- List the objectives covered by the homework assignment. (Skip any objectives not covered.)
- Note the examples listed next to each objective.

**Question:** Take each objective you listed above and turn it into a question. For example, when written as a question, Objective A becomes, "How do I write fractions as decimals?"

**Read** the examples for each objective covered. As you read an example, work the problem.

**Respond:** After you read the examples, use the attached outline for Section 5.5 to answer the questions you posed for each objective.

**Record** your notes. Follow the example given in the attached outline.

- Work each problem listed in the **Step-by-Step Examples** column. (Be sure to show all steps.)
- Answer each question in the **Note Points** column by writing the rule, steps, or formula you need to solve the problem.
- Use the table of symbols and abbreviations on the reverse side of this assignment sheet to condense your notes in the **Note Points** column.

- 2) **Review** your outline. Use a highlighter to mark important rules, steps, and formulas. Review your notes from class and add any important points, examples, or helpful hints provided by your instructor.

Section: 5.5, p. 377

Topic: Fractions, Decimals, and Order of Operations

**Objective A:** Writing fractions as decimals

**Homework:** #1–29 odds, p. 383

**Step-by-Step Examples**

- 1) Terminating Decimals (See Examples 1–2.)

Write  $\frac{2}{5}$  as a decimal.

$$\frac{2}{5} = 2 \div 5 \quad \begin{array}{r} 0.4 \\ 5 \overline{) 2.0} \\ \underline{-20} \\ 0 \end{array}$$

- 2) Repeating Decimals (See Example 3.)

Write  $\frac{5}{6}$  as a decimal.

- 3) Rounding the Answer (See Example 4.)

Write  $\frac{4}{7}$  as a decimal. Round to nearest hundredth.

**Note Points**

- ← How do you write a fraction as a decimal?

Rule: Divide numerator by denominator

$$\begin{array}{r} \text{denom.} \\ \downarrow \\ \frac{2}{5} \leftarrow \text{numer.} \quad \overline{) 2} \\ \uparrow \\ \text{numer.} \end{array}$$

- ← How do you write a repeating decimal? (Explain.)

- ← How do you round a decimal to a given place value? (Explain.)

**Objective B:** Comparing Fractions and Decimals

**Homework:** #39–59 eoo, p. 384

**Step-by-Step Examples**

- 1) Terminating Decimal (See Example 8.)

Insert <, >, or = to form a true statement.

$$\frac{1}{5} \quad \square \quad 0.12$$

- 2) Repeating Decimal (See Example 9.)

Insert <, >, or = to form a true statement.

$$0.3 \quad \square \quad \frac{1}{3}$$

**Note Points**

- ← How do you determine which number is larger? (Explain.)

- ← How do you determine which number is larger? (Explain.)

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**Objective C: Simplifying expressions with decimals****Homework: #63–71 odds, p. 384**

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**Step-by-Step Examples**

- 1)
- Simplifying Parentheses
- (See Example 12.)

Simplify:  $-8.69(3.2 - 1.8)$ 

- 2)
- Simplifying Exponents
- (See Example 13.)

Simplify:  $(-0.7)^2 + 2.1$ 

- 3)
- Simplifying Quotients
- (See Example 14.)

Simplify:  $\frac{20.06 - (1.2)^2 \div 10}{0.02}$ **Note Points**

← What is the Order of Operations? (List the order.)

← How do you simplify the expression? (Explain.)

← How do you simplify the expression? (Explain.)

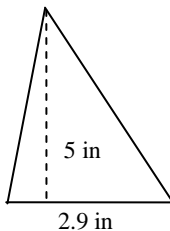
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**Objective D: Solving area problems****Homework: #79 and 81, p. 385**

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**Triangles** (See Example 15.)

- How do you find area of a triangle? (Write the formula.)
- Use the formula to find the area of the triangle below.

**Rectangles**

- How do you find the area of a rectangle? (Write the formula.)
- Use the formula to find the area of the rectangle below.

