

Module A
Math My Way – Math 230
Homework Expectations/Considerations

Section 1.1 The Decimal Place-Value Systems

Remember to write problems and directions and box your answers.

EXAMPLES:

2. Write 637 in expanded form.

$$\boxed{6 \times 100 + 3 \times 10 + 7 \times 1}$$

(Note: $600 + 30 + 7$ is also an acceptable answer.)

12. In the number 324,678,903

a) What digit tells the number of millions? $\boxed{4}$

b) What digit tells the number of ten-thousands? $\boxed{7}$

Sections 1.2 Addition and 1.3 Subtraction

Remember to write numbers big enough and leave enough space to line up the place values.

EXAMPLE for 1.2:

12. Perform the addition:

$$\begin{array}{r} 2792 \\ + 205 \\ \hline \end{array}$$
$$\boxed{2997}$$

EXAMPLE for 1.3:

18. Perform the subtraction:

$$\begin{array}{r} 6000 \\ - 2569 \\ \hline \end{array}$$
$$\boxed{3431}$$

Section 1.4 Round, Estimation, and Order

When rounding, underline the place value to which you are rounding. Again, remember to write out the problem and directions and box your answers.

EXAMPLES:

10. Round 4,352 to the nearest thousand.

4.000

Remember to follow **all** instructions:

EXAMPLES:

Problems 22 and 24 estimate a sum or difference by rounding to the indicated place. Perform the addition or subtraction. Use the exact value to verify your estimated value is reasonable.

22.

$$\begin{array}{r} 78 \text{ tens } 80 \\ 67 \quad 70 \\ 53 \quad 50 \\ 42 \quad 40 \\ +86 \quad 90 \\ \hline \hline \end{array}$$

326 330
estimated difference is reasonable

24.

$$\begin{array}{r} 97 \text{ tens } 100 \\ -31 \quad -30 \\ \hline \hline 66 \quad 70 \end{array}$$

estimated difference is reasonable

Sections 1.5 Multiplication and 1.6 Division

Again, it is important to write big and to space the digits so that place values can be easily lined up.

Section 1.7 Exponential Notation and the Order of Operations

When evaluating problems using the order of operations, follow these rules:

1. Perform one operation at a time.
2. Underline the next operation to be performed.
3. Perform the operation and write the result along with the rest of the expression on the next line.
4. Use one equal (=) sign at the beginning of each new line.

EXAMPLES:

38, 48 Evaluate

$$38. \quad 5 + \underline{8 \div 4} - 3$$

$$= \underline{5 + 2} - 3$$

$$= \underline{7 - 3}$$

$$= \boxed{4}$$

$$18. \quad 20 \div (\underline{3 + 4} - 2)$$

$$= 20 \div (\underline{7 - 2})$$

$$= 20 \div 5$$

$$= \boxed{4}$$

**** Remember:**

1. Multiplication and division have equal priority and are evaluated (whichever comes first) from LEFT to RIGHT.
2. Addition and subtraction have equal priority and are evaluated (whichever comes first) from LEFT to RIGHT.