

# Unit Test STUDY GUIDE

NO calculator

1. Solve the following computations. Show your work.

a.  $20.46 + 35.318$

$$\begin{array}{r} 20.460 \\ + 35.318 \\ \hline 55.778 \end{array}$$

b.  $18.32 - 5.225$

$$\begin{array}{r} 18.320 \\ - 5.225 \\ \hline 13.095 \end{array}$$

c.  $17.7 \times 2.1$

$$177 \times 21 = 3717$$

d.  $25.2 \div 0.6$

$$\begin{array}{r} 42 \\ 6 \overline{) 252} \\ \underline{6 \times 40 = 240} \\ 6 \times 2 = 12 \\ \underline{6 \times 42 = 252} \end{array}$$

2. Ms. Suze is grading math tests. A student's work on a problem is given below:

$$0.16 \times 5.01 = 0.8016$$

Is the student correct? Explain.

Yes, because  $16 \times 501 = 8,016$ , and there are 4 numbers after the decimal to the right of the = sign, so there needs to be 4 on the left.

2. Suppose that your mom gives you \$20 to go to the school supplies store.

You need to buy the following items:

Item	Cost
pencils	\$2.89
notebook binder	\$4.99
paper	\$4.19
highlighter pens	\$1.75

- a. How much will the supplies cost? Show your work.

$$2.89 + 4.99 + 4.19 + 1.75 = \\ \$13.82$$

- b. There is a 6% sales tax on supplies. What is the tax.

$$.06 \times 13.82 = .83 \text{ \textdollar}$$

- c. What is the total cost; food, tax, ~~and~~?

$$13.82 + .83 = \$14.65$$

- d. Your favorite lunch costs \$5.87 with tax included. Will you have enough money left to buy the lunch? Explain.

$$\begin{array}{r} 5.87 \\ + 14.65 \\ \hline 20.52 \end{array} \leftarrow \text{no! I am } 52 \text{ \textdollar short}$$