

1. Compare using  $>$ ,  $<$ , or  $=$ .

a. 3 thousandths + 2 hundredths



0.025

b. 3 tens 2 tenths 2 thousandths



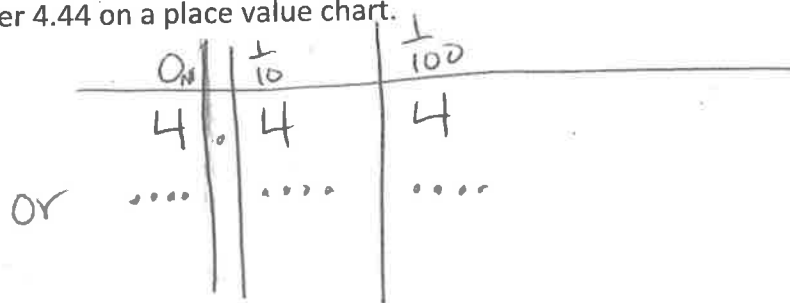
30.002

c. 34 tenths



3.5

2. Model the number 4.44 on a place value chart.



a. Use words, numbers, and your model to explain why each of the digits has a different value. Be sure to use "ten times as much" and "one tenth of" in your explanation.

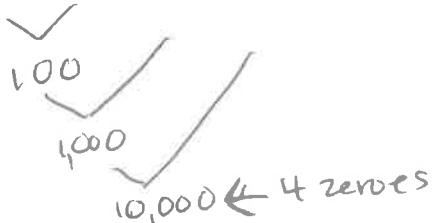
The ones place is ten times as much as (or ten times bigger than) the tenths place because 10 tenths is the same as 1 one. The tenths place is one tenth of the ones place because 1 whole is broken into 10 tenths.

b. Multiply  $4.44 \times 10^4$ . Explain the shift of the digits, the change in the value of each digit, and the number of zeroes in the product.

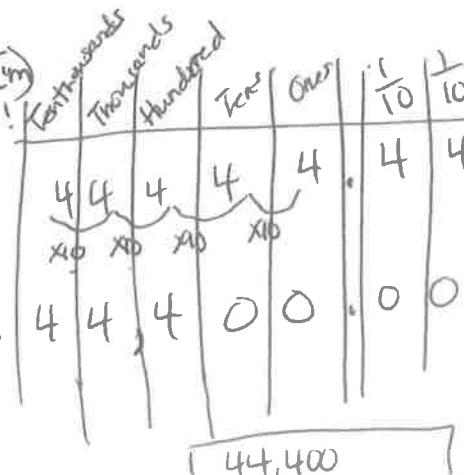
exponent  
↓  
 $10^4$

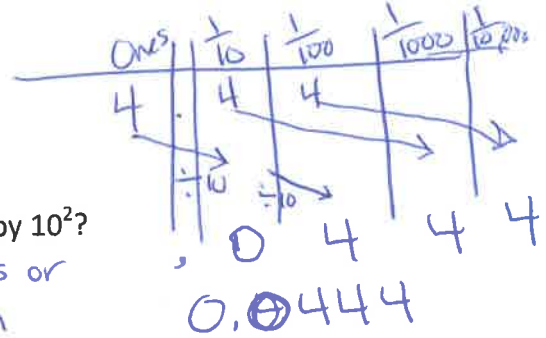
(My exponent tells me the number of zeroes  $\uparrow$  multiplying by!)

$$10^4 = 10 \times 10 \times 10 \times 10$$



Each time I multiply the # gets 10 times bigger!





c. What would happen to the digits if you divided 4.44 by  $10^2$ ?

It gets smaller by  $10 \times 10$  times or 100 times because I'm dividing by 10s.

3. Annual rainfall total for cities in Arizona are listed below.

	0.120
Tucson	0.12 meters
Glendale	0.117 meters
Flagstaff	0.248 meters
Phoenix	0.107 meters

a. Put the rainfall measurements in order from least to greatest.

least 0.107 0.117 0.120 0.248 greatest

b. Round each of the rainfall totals to the nearest tenth.

0.1      0.1      0.1      0.2

4. A flower measured 23.56 cm tall. Round the height of the flower to the nearest whole number.

23.56

5 or more, add 1 more!  
4 or less, give it a rest (no change)

24 cm

5. Express the following number using expanded form, unit form, and word form:

625.25

expanded:  $(6 \times 100) + (2 \times 10) + (5 \times 1) + (2 \times \frac{1}{10}) + (5 \times \frac{1}{100})$   
or  $(6 \times 100) + (2 \times 10) + (5 \times 1) + (2 \times 0.1) + (5 \times 0.01)$

unit:

6 hundreds 2 tens 5 ones 2 tenths 5 hundredths  
or 62,525 hundredths

word: six hundred twenty-five and twenty-five hundredths

6. What's a reasonable product for  $5 \times 6.7$ ? Explain your thinking.

35 because I can round 6.7 to 7 and  $5 \times 7 = 35$  so I know my answer will be between 30-35.

and  $5 \times 6 = 30$

9. Round 362.459 to the nearest tenth, hundredth and whole number.

Tenth: 362.5

Hundredth: 362.46

Whole Number: 362

The test questions will be word problems, but here is some practice with basic operations using decimals. Don't forget to check your work!

12.  $3.05 + 0.07 =$  3.12

$$\begin{array}{r} 3.05 \\ + 0.07 \\ \hline 3.12 \end{array}$$
~~$$\begin{array}{r} 3.12 \\ - 3.05 \\ \hline 0.07 \end{array}$$~~

✓

13.  $60.9 - 3.254 =$  57.646

$$\begin{array}{r} 60.900 \\ - 3.254 \\ \hline 57.646 \end{array}$$

$$\begin{array}{r} 57.646 \\ + 3.254 \\ \hline 60.900 \end{array}$$

14.  $92.45 - 0.003 =$  92.447

$$\begin{array}{r} 92.450 \\ - 0.003 \\ \hline 92.447 \end{array}$$

$$\begin{array}{r} 92.447 \\ + 0.003 \\ \hline 92.450 \end{array}$$

15.  $5 \times 7.68 =$  38.40

$$\begin{array}{r} 7.68 \\ \times 5 \\ \hline 38.40 \end{array}$$

$$\begin{array}{r} 7.68 \\ 5 \overline{) 38.40} \\ \underline{- 35} \phantom{0} \\ 34 \phantom{0} \\ \underline{- 30} \\ 40 \\ \underline{- 40} \\ 0 \end{array}$$

16. \$12.40 divided by 5

\$2.48

$$\begin{array}{r} 2.48 \\ 5 \overline{) 12.40} \\ \underline{- 10} \phantom{0} \\ 24 \phantom{0} \\ \underline{- 20} \\ 40 \\ \underline{- 40} \\ 0 \end{array}$$

$$\begin{array}{r} 2.48 \\ \times 5 \\ \hline 12.40 \end{array}$$