

5th Grade Math

End of Module 1 Review

Place Value and Decimal Fractions

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

a. 3 thousandths + 2 hundredths

$$\begin{array}{r} .003 \\ + .02 \\ \hline .023 \end{array}$$



0.025

b. 3 tens 2 tenths 2 thousandths

$$\begin{array}{r} 30 + .2 + .002 \\ \hline 30.202 \end{array}$$



30.002

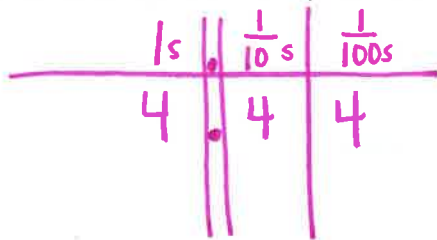
c. 34 tenths

$$3.4$$



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 ^{value of the} digit 4 in the ones place is ten times as much as the digit 4 in the tenths place.

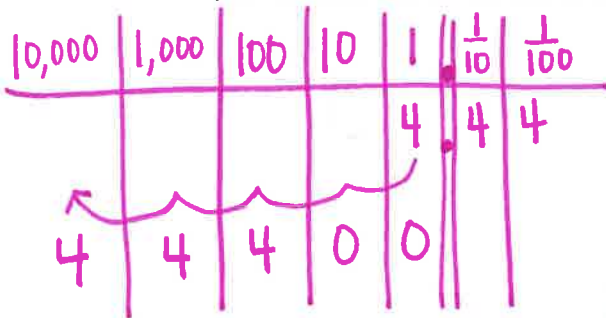
The value of the digit 4 in the hundredths place is one tenth of the digit 4 in the tenths place.

In a multi-digit number each digit has a different value.

10,000



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



44,400

The digits shifted 4 places to the left because I multiplied by 10,000. Each digit increased in value by 10,000. There are two zeroes in the

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

10^2 equals 100. If I divided 4.44 by 100 then my digits would shift two place values to the right. The quotient would be .0444

product because the factor 4.44 began with a digit in the hundredths place. When the digits shifted two zeros appeared as place holders.

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

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 to greatest: 0.107m 0.117m 0.12m 0.248m

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

$$\text{Tucson: } 0.\underline{1}2\text{m} \Rightarrow 0.1\text{m}$$

$$\text{Glendale: } 0.\underline{1}07\text{m} \Rightarrow 0.1\text{m}$$

$$\text{Flagstaff: } 0.\underline{2}48\text{m} \Rightarrow 0.2\text{m}$$

$$\text{Phoenix: } 0.\underline{1}07\text{m} \Rightarrow 0.1\text{m}$$

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

$$23.\underline{5}6\text{cm} \Rightarrow \boxed{24\text{cm}}$$

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

625.25

$$\text{expanded form: } (6 \times 100) + (2 \times 10) + (5 \times 1) + (2 \times \frac{1}{10}) + (5 \times \frac{1}{100})$$

unit form: 625.25 hundredths

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

6. What's a reasonable product for 5×6.7 ? Explain your thinking.

6.7 is close to 7. $5 \times 7 = 35$. $5 \times 6 = 30$.

A reasonable answer would be somewhere between 30 and 35.

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

Tenth: 362.5 362.459

Hundredth: 362.46 362.459

Whole Number: 362 362.459

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

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

13. $60.9 - 3.254 =$ 57.646

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

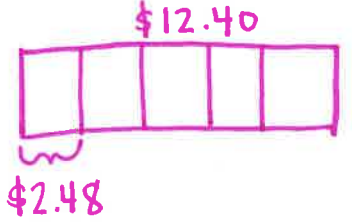
14. $92.45 - 0.003 =$ 92.447

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

15. $5 \times 7.68 =$ 38.40

$$\begin{array}{r} 768 \text{ hundredths} \\ \times 5 \\ \hline 3840 \text{ hundredths} \end{array}$$

16. \$12.40 divided by 5



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

check:

$$\begin{array}{r} 248 \text{ hundredths} \\ \times 5 \\ \hline 1240 \text{ hundredths} \\ = 12.40 \checkmark \end{array}$$

