## G5-M1-Lesson 2

## 1. Solve.

a.  $4,258 \times 10 = 42,580$ 

I visualized a place value chart. 8 ones times 10 is 8 tens. When multiplying by 10, each digit shifts 1 place to the left.

b. 
$$4,258 \div 10 = 425.8$$

When dividing by 10, each digit shifts 1 place to the right.

c. 
$$3.9 \times 100 = 390$$

The factor 100, has 2 zeros, so I can visualize each digit shifting 2 places to the left.

d. 
$$3.9 \div 100 = 0.039$$

The divisor, 100, has 2 zeros, so each digit shifts 2 places to the right.

a.  $9,647 \times 100 = 964,700$ 

9.647 b.  $9,647 \div 1,000 =$ 

 $7 \div 1$  thousand = 7 thousandths = 0.007

c. Explain how you decided on the number of zeros in the product for part (a).

I visualized a place value chart. Multiplying by 100 shifts each digit in the factor 9, 647 two places to the left, so there were 2 additional zeros in the product.

 $7 \times 1$  hundred = 7 hundreds = 700

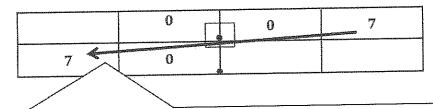
d. Explain how you decided where to place the decimal in the quotient for part (b).

The divisor, 1,000, has 3 zeros, so each digit in 9,647 shifts 3 places to the right. When the digit 9 shifts 3 places to the right, it moves to the ones places, so I knew the decimal point needed to go between the ones place and the tenths place. I put the decimal between the 9 and the 6.

3. Jasmine says that 7 hundredths multiplied by 1,000 equals 7 thousands. Is she correct? Use a place value chart to explain your answer.

Jasmine is not correct. 7 ones imes 1,000 would be 7 thousands.

But  $0.07 \times 1,000 = 70$ . Look at my place value chart.

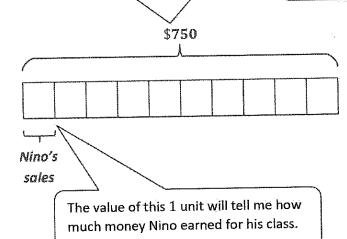


The factor 1,000 has 3 zeros, so the digit 7 shifts 3 places to the left on the place value chart.

4. Nino's class earned \$750 selling candy bars for a fundraiser.  $\frac{1}{10}$  of all the money collected was from sales made by Nino. How much money did Nino raise?

The whole tape represents all of the money earned by Nino's class.

Nino collected  $\frac{1}{10}$  of all the money, so I partition the tape diagram into 10 equal



Nino raised \$75.

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