**Objectives:** ...to add, subtract, multiply, and divide decimals

**Assessment Anchor:** 



7.A.3.2 – Compute accurately with and without use of a calculator

### **Yocabulary alert!!**

<u>SUM</u> – the answer to an addition problem

<u>DIFFERENCE</u> – the answer to a subtraction problem

#### **NOTES**

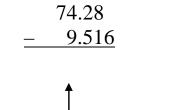
\*\* When adding OR subtracting decimal numbers, you must...

### LINE UP THE DECIMAL POINT!

- 1. Write numbers vertically and line up the decimal points.
- 2. Fill in empty place values with ZEROS.
- 3. Add or subtract, as if they were whole numbers.
- 4. Decimal point comes straight down into your answer.

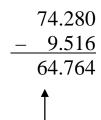
#### **EXAMPLES**

$$2)$$
  $74.28 - 9.516$ 



Line up decimal pt. Bigger number on top.

Fill in zeros.



Decimal straight down. Borrow when necessary.

4)

13.4 - 2.28

6)

50 - 25.42



"If you can't find it, put it behind it."

### **Yocabulary alert!!**

<u>PRODUCT</u> – the answer to a multiplication problem

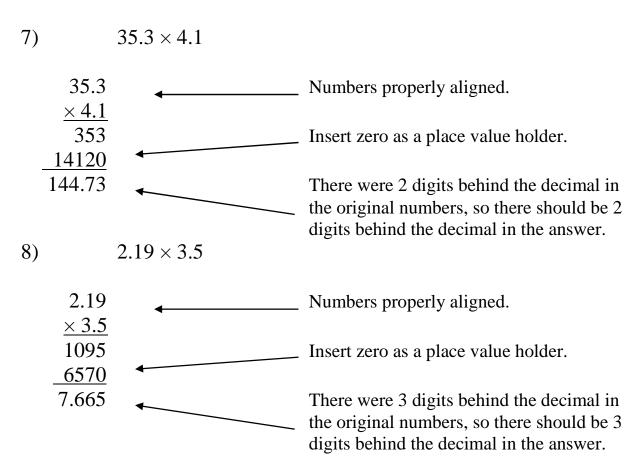
#### **MORE NOTES**

\*\* When multiplying decimal numbers, you must...

### **COUNT THE DECIMAL PLACES!**

- 1. Write numbers vertically with final digits on top of each other.
- 2. Multiply as if they were whole numbers.
- 3. Count the number of digits to the right of the decimal points (total) and make sure the answer has the same!

#### **EXAMPLES**



9)  $38.1 \times 0.32$ 

10)

 $25 \times 4.12$ 

11)  $83.4 \times 0.006$ 

#### **Yocabulary alert!!**

**QUOTIENT** – the answer to a division problem

#### **MORE NOTES**

\*\* When dividing decimal numbers, you must...

## MAKE THE DIVISOR A WHOLE #!

- 1. Write problem using long division symbol. THE FIRST NUMBER GOES INSIDE THE DIVISION SYMBOL!
- 2. Examine the divisor for a decimal point...if necessary, move the decimal point to the right until it is behind all digits in the divisor.
- 3. Move the decimal point the same number of spaces in the dividend.
- 4. Now put the decimal point straight up into your answer.
- 5. Divide as if whole numbers.

#### **EXAMPLES**

12) 
$$46.32 \div 0.4$$

First number goes inside symbol.

Move decimal to the right 1 time.  $\frac{115.8}{04. )463.2}$ Decimal point goes straight up.  $\frac{-4}{06}$   $\frac{-4}{23}$   $\frac{-20}{32}$ 

13) 
$$902 \div 0.11$$

First number goes inside symbol.

Move decimal to the right 2 times.  $\frac{8200}{011.99200}$ Decimal point goes straight up. -88 22 -22



000

"Keep dividing until you have a remainder of zero, OR a repetition appears."

14) 
$$2.856 \div 0.04$$

15)

 $0.496 \div 1.2$ 

16) 
$$45 \div 0.004$$