

# Notes and Handouts

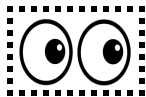
Name: \_\_\_\_\_

Unit 1 Whole and Decimal Number Operations

Math6

Period: \_\_\_\_\_

## Dividing Decimals by Whole Numbers



**Terms:** Dividend-A number being divided by another number  
Divisor - A number that another number is being divided by  
Quotient - The result of dividing one number by another number



**Objective:** I will accurately divide a decimal number by a whole number.

**Explanation/Rationale:** Three friends receive \$2.58 for aluminum cans they recycled. They decide to share the money equally. How much does each friend get?



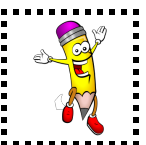
### **Steps:**

1. Divide the numbers
2. Place a decimal point in the quotient directly above the decimal point in the dividend.

\* Annex Zeros if necessary

$$\begin{array}{r} 0.86 \\ 3 \overline{) 2.58} \\ \underline{-0} \phantom{0} \phantom{0} \\ 25 \phantom{0} \\ \underline{-24} \phantom{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

Each of the three friends will get \$0.86



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## Examples:

1.  $134.88 \div 24$

Handwritten long division for  $134.88 \div 24$ . The divisor is 24 and the dividend is 134.88. The quotient is 5.62. The steps are: 24 goes into 134 five times (120), leaving a remainder of 14. Bring down the 8 to get 148. 24 goes into 148 six times (144), leaving a remainder of 4. Bring down the 8 to get 48. 24 goes into 48 two times (48), leaving a remainder of 0.

2.  $188 \div 8$

Handwritten long division for  $188 \div 8$ . The divisor is 8 and the dividend is 188. The quotient is 23.5. The steps are: 8 goes into 18 two times (16), leaving a remainder of 2. Bring down the 8 to get 28. 8 goes into 28 three times (24), leaving a remainder of 4. Bring down the 0 to get 40. 8 goes into 40 five times (40), leaving a remainder of 0.



## YOU GOT THIS:

Problems for students to tackle independently or with group/partners

1)  $254.58 \div 2$

2)  $7855.5 \div 15$

3)  $2685 \div 6$