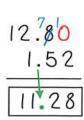
# Adding & Subtracting Decimals

- I. Write the problem vertically, lining up the decimal points
- ex: 12.8 1.52

- 2. Add zeros, if necessary
- 3. Add or subtract the numbers as if they were whole numbers
- 4. Bring the decimal point straight down



# Multiplying Decimals

- Write the problem vertically with the numbers lined up to the right (decimals do NOT need to be lined up)
- ex: 3.24 x 0.8
- 2. Ignore the decimal points and multiply the numbers as if they were whole numbers
- x 2 4 2 decimal places

  0.8 1 decimal place

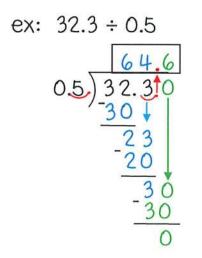
  3 decimal places

  2592

  2.592
- 3. Count the total number of decimal places in the two factors and put a decimal point in the product so that it has that same number of decimal places

# Dividing Decimals

- 1. Write the dividend under the division symbol and the divisor in front of the division symbol
- 2. Move the decimal in the divisor after the number and then move the decimal in the dividend the same number of places and bring it up
- 3. Ignore the decimal point and divide as if whole numbers
- 4. If there is a remainder, add a zero to the end of the dividend, bring it down, and then continue dividing until there is no remainder



Find each sum or difference. Show your work.

		· · · · · · · · · · · · · · · · · · ·	
49. 8.74 + 10.36	50. 37.4 – 8.55	51. 12.9 + 105.67	52. 450.89 – 213.33
53. 24.1 + 3.74	54. 14.76 - 9.8	55. 622.85 + 53.49	56. 67 – 14.06

Find each product or quotient. Show your work.

57. 4.5 x 6	58. 144.8 ÷ 4	54. 2.7 x 0.8	60. 6.2 ÷ 0.04
61. 8.9 x 2.5	62. I5.8 ÷ 0.5	63. !4.8 x O.12	64. 16.2 ÷ 1.2

Solve each problem, showing all work.

65. Ryan spent \$3.25 on	unch every day, Monday
through Friday. If he	had \$20 at the start of the
week, how much mon	ey did he have left after
Friday?	3

66. Three friends went out to lunch. The bill came to \$47.31. If they split the bill evenly, how much money does each friend owe?

# Adding & Subtracting Fractions

- I. Rename the fractions to equivalent fractions with common denominators
- ex:  $4\frac{4}{9} + \frac{2}{3}$
- 2. Add or subtract the numerators and keep the denominator the same
- 3. If mixed numbers, add or subtract the whole numbers

 $4 \frac{10}{9} = 5 \frac{1}{9}$ 

4. If possible, simplify the answer  $\varepsilon$  change improper fractions to mixed numbers

### Multiplying Fractions

- I. Turn a whole number into a fraction by giving it a denominator of I
- ex:  $6 \times \frac{2}{3}$

2. Cross-simplify the fractions if possible

 $\frac{2}{1} \times \frac{2}{3} = \frac{4}{1}$ 

3. Multiply the 2 numerators and the 2 denominators

= 4

4. If possible, simplify the answer  $\mathcal{E}$  change improper fractions to mixed numbers

# Dividing Fractions

- I. Turn a whole number into a fraction by giving it a denominator of I
- ex:  $12 \div \frac{1}{2}$
- 2. Keep the 1<sup>st</sup> fraction the same, change the division symbol to multiplication, and flip the 2<sup>nd</sup> fraction to its reciprocal
- $\frac{12}{1} \div \frac{1}{2}$

3. Multiply the 2 fractions

- $\frac{12}{1} \times \frac{2}{1} = \frac{24}{1} = 24$
- 4. If possible, simplify the answer  $\varepsilon$  change improper fractions to mixed numbers

Find each sum or difference. Show your work.

67. $\frac{7}{8} + \frac{5}{6}$	68. $\frac{q}{10} - \frac{1}{2}$	69. $\frac{3}{11} + \frac{2}{3}$	70. $\frac{11}{12} - \frac{13}{18}$
71. $4\frac{5}{9} + 7\frac{1}{3}$	72. 12 <del>4</del> - 9 <del>3</del> <del>7</del>	73. $3\frac{3}{5} + 2\frac{3}{4}$	74. $2\frac{2}{15} - 1\frac{2}{3}$

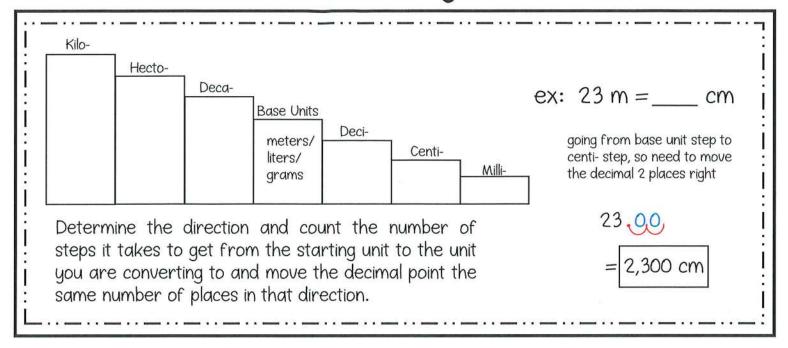
Find each product or quotient. Show your work.

75. $\frac{1}{6} \times \frac{3}{4}$	76. $6 \div \frac{1}{3}$	77. $15 \times \frac{2}{3}$	78. $\frac{1}{2} \div 3$
74. 10	80. <del>[</del> ÷ 2	81. $\frac{5}{q} \times \frac{3}{20}$	82. 4 ÷ <del>[</del>
7.7. 6.7.10	, sa. 4 . C	on ¶ ^ 20	5 5

Solve each problem, showing all work.

- 83. Jacqui ran 1  $V_2$  miles on Monday, Wednesday, and Friday and  $^3V_4$  mile on Tuesday and Thursday. How far did she run in all?
- 84. Tyrell gave 3 packs of baseball cards to his friends. He gave each friend  $V_3$  of a pack. How many friends got baseball cards?

### The Metric System



#### The Customary System

Length	Weight	Capacity	ex: $18 c = pt$	
Ift = 12 in Iyd = 3 ft Imi = 5,280 ft	1 lb = 16 oz 1 T = 2,000 lb	c = 8 fl oz   pt = 2 c   qt = 2 pt   gal = 4 qt	cups are smaller units of measure than pints, so need to divide	
		nit to a smaller unit, maller unit to a larger	$18 \div 2 = \boxed{9 \text{ pints}}$	

#### Volume

Volume is the number of cubic units inside a figure.

Volume of Rectangular Prism = length x width x height

Volume of Irregular Figure: count cubic units  $V = 4 \times 10 \times 5 = 200 \text{ cm}^3$ 

Convert each Metric measurement. Show your work.

85. I.9 km = \_\_\_\_ m

86.  $23 g = ___ mg$ 

87. 350 ml = \_\_\_\_ kl

89.  $6 \text{ cm} = ___ \text{m}$ 

90.  $35 \, \text{ml} =$ \_\_\_\_\_ l

Convert each Customary measurement. Show your work.

91. 48 in = \_\_\_\_\_ ft

92. 6 pt = \_\_\_\_ c

43. 3 T = [b

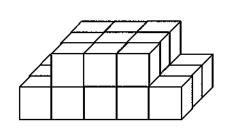
94. 1.5 mi = \_\_\_\_\_ ft

95. 32 pt = \_\_\_\_ gal

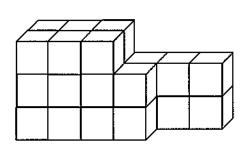
96.  $32 \text{ oz} = ____ \text{lb}$ 

Find the volume of each figure. Show your work.

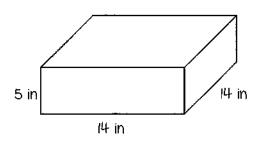
97.



98.



99.



100.

