Name: Date:

Equivalent Decimals and Fractions

1. Draw a number line from 0.7 to 0.9, with tick marks at every hundredth. Mark on your number line 0.7, 0.70, 0.8, 0.80, 0.9 and 0.90.

2. A bunch of these have the same value! Match them with a line to a decimal in the middle row.

$\frac{7}{1000}$	$\frac{70}{100}$	$\frac{70}{1000}$	$\frac{7}{100}$	$\frac{700}{100000}$	$\frac{7}{10}$
		0.007	0.07	0.7	
0.70	0.00700	0.700	0.070	0.0070	0.07000

3. Calculate mentally. Change to equivalent decimals so they all have the same amount of decimal digits.

a. 0.09 + 0.4 = 0.09 + 0.40 = 0.49

b. 0.3 + 0.06

c. 0.02 + 0.004

d. 0.8 − 0.003

e. 1.4 − 0.02

f. 0.03 + 0.045

g. 0.04 − 0.015

h. 4.1 + 0.009

i. 1.5 + 2.03

4. Add. Give your answer as a decimal.

a. $\frac{2}{10} + \frac{6}{100}$ **b.** $0.2 + \frac{7}{10} + \frac{2}{100}$ **c.** $0.36 + \frac{2}{10} + \frac{1}{100}$ **d.** $0.05 + \frac{4}{10} + \frac{35}{100}$

5. Add and subtract in columns - even here it helps to change to equivalent decimals.

a. 2.94 + 4.7 + 14.082 + 9.38

b. 0.00083 + 0.034 + 0.97

c. 3.087 − 1.39

d. 13.42 − 5.90073 − 3.2905

6. Convert to decimals to solve these. Give your answer as a decimal.

a. $\frac{20389}{100000} + \frac{67}{100}$ **b.** $5\frac{7}{10} + \frac{2054}{100000}$ **c.** $\frac{2}{10} - \frac{159}{10000}$

Sample worksheet from www.mathmammoth.com