

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.

$$\frac{7}{1000} \quad \frac{70}{100} \quad \frac{70}{1000} \quad \frac{7}{100} \quad \frac{700}{100000} \quad \frac{7}{10}$$

$$0.007 \quad 0.07 \quad 0.7$$

$$0.70 \quad 0.00700 \quad 0.700 \quad 0.070 \quad 0.0070 \quad 0.07000$$

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

a.  $0.09 + 0.4 = \underline{0.09 + 0.40} = \underline{0.49}$

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.  $\frac{2}{10} - \frac{159}{10000}$