

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. Make the numbers have the same amount of decimal digits before calculating.

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