

# Fractions, Percents, and Decimals

1. Fill in the charts.

Fraction	Decimal	Percent
	0.5	
$\frac{1}{3}$		
		25%
$\frac{1}{5}$		
	0.1	

Fraction	Decimal	Percent
$\frac{7}{10}$		
	0.14	
$\frac{9}{100}$		
$\frac{3}{5}$		
		75%

Fraction	Decimal	Percent
$\frac{4}{25}$		
	0.28	
$\frac{17}{20}$		
	1.02	
		67%

2. Write an expression using decimals and multiplication, **and** percent and multiplication. Solve.

<p>a. One-tenth of 75</p> <p><math>0.1 \times 75 = 7.5</math></p> <p><math>10\% \times 75 = 7.5</math></p>	<p>b. one-third of 57 kg</p>	<p>c. three-fourths of \$49.90</p>
<p>d. 37 hundredths of 90 mi</p>	<p>e. four-fifths of 1,800 children</p>	<p>f. 7 tenths of 540 km</p>

3. Tenth of a percent? Change to decimals.

- a. 5.1%                      b. 27.8%                      c. 93.28%                      d. 5.04%
- e. 0.1%                      f. 4.042%                      g. 83.382%                      h. 0.012%

4. Change to percents.

- a. 0.001                      b. 0.009                      c. 0.0009                      d. 0.548
- e. 0.3091                      f. 0.39201                      g. 0.00032                      h. 1.055

5. Change the fractions to decimals and to percents. Give your answer with tenth of a percent. Use a simple calculator to divide.

- a.  $\frac{8}{23}$                       b.  $\frac{11}{15}$                       c.  $\frac{34}{101}$                       d.  $\frac{9}{283}$                       e.  $\frac{192}{941}$

6. Compare without calculations. Think! Converting will help!

- a.  $\frac{17}{102}$   0.17                      b.  $\frac{1}{7}$   7%                      c. 10%   $\frac{1}{11}$                       d. 21%   $\frac{19}{1291}$
- e.  $\frac{47}{39}$   82%                      f.  $\frac{3}{8}$   60%                      g. 10%   $\frac{15}{155}$                       h. 71%   $\frac{6}{8}$