

HW 3.2

April 1, 2015 8:59 PM

1. Complete the following table by converting fractions to decimals and percentages:

Fractions	Lowest terms:	Decimal	Percentages:
$\frac{6}{8}$	$\frac{3}{4}$	0.75	75%
$\frac{6025}{10,000}$	$\frac{241}{400}$	0.6025	60.25%
$\frac{39}{65}$	$\frac{3}{5}$	0.60	60%
$\frac{555}{1000}$	$\frac{111}{200}$	0.555	55.5%
$\frac{875}{10,000}$	$\frac{7}{80}$	0.0875 ←	8.75%
$1\frac{1}{3}$	$\frac{4}{3}$	1.333	133.3%

$$0.6025 = \frac{6025}{10,000} = \frac{241}{400}$$

$$0.60 = \frac{60}{100}$$

$$0.605 = \frac{605}{1000}$$

$$0.6025 = \frac{6025}{10,000}$$

$$0.555 = \frac{555}{1000} = \frac{111}{200}$$

$$0.0875 = \frac{875}{10,000} = \frac{35}{400} = \frac{7}{80}$$

repeat
33.3

a) $\frac{1}{2}$ 0.5, 50%	b) $\frac{1}{3}$ 0.3, 33.3%	c) $\frac{2}{3}$ $66\frac{2}{3}\%$ 0.6, 66.6%	d) $\frac{1}{4}$ 0.25, 25%
e) $\frac{2}{4}$ 0.5, 50%	f) $\frac{3}{4}$ 0.75, 75%	g) $\frac{1}{5}$ 0.2, 20%	h) $\frac{2}{5}$ 0.4, 40%
i) $\frac{3}{5} = \frac{6}{10}$ 0.6, 60%	j) $\frac{4}{5}$ 0.8, 80%	k) $\frac{1}{6}$ 0.1666, 16.6%	l) $\frac{5}{6}$ $83\frac{1}{3}\%$ 0.83, 83.3%
m) $\frac{1}{8}$ 0.125, 12.5%	n) $\frac{2}{8}$ 0.25, 25%	o) $\frac{3}{8}$ 0.375, 37.5%	p) $\frac{5}{8}$ 0.625, 62.5%
q) $\frac{7}{8}$ 0.875, 87.5%	r) $\frac{1}{9}$ 0.111, 11.1%	s) $\frac{2}{9}$ 0.222, 22.2%	t) $\frac{4}{9}$ 0.444, 44.4%
u) $\frac{6}{9}$ 0.6, 66.6%	v) $\frac{7}{9}$ 0.7, 77.7%	w) $\frac{11}{9}$ 122.2% $1\frac{2}{9}$, 1.222	x) $\frac{7}{10}$ 0.7, 70%
y) $\frac{1}{11}$	z) $\frac{3}{11}$	ii) $\frac{7}{11}$	iii) $\frac{13}{11}$

$$\frac{1}{9} = 0.\overline{1111}$$

$$\frac{13}{99} = 0.\overline{131313}$$

$$\frac{475}{999} = 0.\overline{475475}$$

$$\frac{0\overline{4}}{99} = 0.\overline{040404} \quad \frac{5}{99} = 0.\overline{050505} \quad \left. \vphantom{\frac{0\overline{4}}{99}} \right\} 777$$

$$\frac{1}{11} \times 9 = \frac{09}{99} = 0.\overline{090909}$$

$$\frac{3}{11} \times 9 = \frac{27}{99} = 0.\overline{272727}$$

a) 0.375 $\frac{3}{8}$	b) $0.\overline{333}$	c) 0.125	d) $0.\overline{1666}$
e) $0.\overline{8333}$	f) 0.625	g) 4.25	h) 8.12
i) $2.\overline{66}$	j) 0.0035	k) 0.0125	l) 0.05
m) 0.015	n) $0.\overline{27}$	o) $0.\overline{18}$	p) $0.\overline{033}$