

Name: _____

Date: _____

Math 8 HW Section 3.2 Converting Fractions to Percentages and Decimals:

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

Fractions	Lowest terms:	Decimal	Percentages:
$\frac{6}{8}$			
			60.25%
$\frac{39}{65}$			
			55.5%
		0.0875	
		$1.\overline{333}$	

2. Write each of the following fractions as a decimal and percentage:

a) $\frac{1}{2}$	b) $\frac{1}{3}$	c) $\frac{2}{3}$	d) $\frac{1}{4}$
e) $\frac{2}{4}$	f) $\frac{3}{4}$	g) $\frac{1}{5}$	h) $\frac{2}{5}$
i) $\frac{3}{5}$	j) $\frac{4}{5}$	k) $\frac{1}{6}$	l) $\frac{5}{6}$
m) $\frac{1}{8}$	n) $\frac{2}{8}$	o) $\frac{3}{8}$	p) $\frac{5}{8}$
q) $\frac{7}{8}$	r) $\frac{1}{9}$	s) $\frac{2}{9}$	t) $\frac{4}{9}$
u) $\frac{6}{9}$	v) $\frac{7}{9}$	w) $\frac{11}{9}$	x) $\frac{7}{10}$
y) $\frac{1}{11}$	z) $\frac{3}{11}$	ii) $\frac{7}{11}$	iii) $\frac{13}{11}$
iv) $\frac{12}{99}$	v) $\frac{34}{99}$	vi) $\frac{5}{99}$	vii) $\frac{12}{999}$
viii) $\frac{7}{1000}$	ix) $\frac{78}{1000}$	x) $\frac{23}{999}$	xi) $\frac{65}{20}$

3. Write each of the following decimals as a fraction in lowest terms and percentage:

a) 0.375	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) $0.\overline{033}$

4. Write each of the following percentages as a fraction and decimal:

a) 12.5%	b) 35%	c) 180%	d) $25\frac{1}{6}\%$
e) 0.5%	f) 0.0012%	g) $123\frac{3}{4}\%$	h) $85\frac{3}{5}\%$

5. What is the difference between 0.50% and 0.50 in decimal form?

6. What is the denominator when 0.007 is written as a fraction? What about 0.0007? What about 0.007%?

7. Jacky bought a hockey card at \$12. Two years later that same card was worth \$324. What percent is the new value compared to the old value?

8. A large 6L jug has a mixture of different chemicals. It contains 500ml of bleach, 1.5L of Sodium Oxide, and the rest is water. What percentage of the mixture is bleach? What percentage is Sodium oxide?

9. Challenge: The Los Angeles Lakers have won only 1 of their last 6 games. How many games do they need to win in a row to have a winning percentage of 80%?