

NS8-80: Changing Fractions to Decimals

- $\frac{65}{100}$ is between $\frac{60}{100}$ and $\frac{70}{100}$ or between $\frac{6}{10}$ and $\frac{7}{10}$.
 - $\frac{37}{100}$ is between $\frac{30}{100}$ and $\frac{40}{100}$ or between $\frac{3}{10}$ and $\frac{4}{10}$.
 - $\frac{44}{100}$ is between $\frac{40}{100}$ and $\frac{50}{100}$ or between $\frac{4}{10}$ and $\frac{5}{10}$.
 - $\frac{5}{100}$ is between $\frac{0}{100}$ and $\frac{10}{100}$ or between $\frac{0}{10}$ and $\frac{1}{10}$.

2. Which two decimals is each fraction between?

a) $0.6 < \frac{65}{100} < 0.7$ b) $0.3 < \frac{37}{100} < 0.4$ c) $0.4 < \frac{44}{100} < 0.5$ d) $0.5 < \frac{52}{100} < 0.6$

3. Write each fraction as a decimal.

a) $\frac{47}{100} = 0.47$ b) $\frac{34}{100} = 0.34$ c) $\frac{49}{100} = 0.49$ d) $\frac{9}{100} = 0.09$ e) $\frac{7}{10} = 0.7$ f) $\frac{8}{10} = 0.8$

4. Write each fraction as an equivalent fraction and then as a decimal.

a) $\frac{1}{2} = \frac{5}{10} = 0.5$ b) $\frac{3}{25} = \frac{12}{100} = 0.12$ c) $\frac{7}{20} = \frac{35}{100} = 0.35$
 d) $\frac{4}{5} = \frac{8}{10} = 0.8$ e) $\frac{326}{500} = \frac{652}{1000} = 0.652$ f) $\frac{9}{40} = \frac{225}{1000} = 0.225$

5. Change each fraction to a decimal by long division.

a) $\frac{1}{8} = 0.125$

0.125					
8	)	1	0	0	0
		8			
		2	0		
		16			
			4	0	
			4	0	
				0	

b) $\frac{5}{8} = 0.625$

0.625					
8	)	5	0	0	0
		4	8		
		2	0		
		16			
			4	0	
			4	0	
				0	

c) $\frac{5}{4} = 1.25$

1.25					
4	)	5	0	0	0
		4			
		1	0		
		8			
		2	0		
		2	0		
			0		

d) $\frac{3}{8} = 0.375$

0.375					
8	)	3	0	0	0
		2	4		
		6	0		
		5	6		
			4	0	
			4	0	
				0	