

Ex.1 Express each decimal as a percent.

a) 0.64 → 64%  
 b) 0.3 → 30%  
 c) 0.009 → 0.9%

d) 1.17 → 117%  
 e) 0.102 → 10.2%  
 f) 2.88 → 288%

How do I do that:

Type # & • by 100  
 OR move decimal  
 ↘

Ex.2 Write each percent as a decimal

a) 41% → .41  
 b) 36% → .36  
 c) 320% → 3.2

d) 0.19% → 0.0019  
 e) 0.079% → 0.00079  
 f) 45.8% → 0.458

How do I do that:

OPPOSITE! ÷ by 100  
 OR move decimal  
 ↙

Ex.3 Express each fraction as a decimal, then as a percent.How do I do that:

a)  $\frac{1}{5} = 0.2$  → 20%  
 b)  $\frac{11}{2} = 5.5$  → 550%  
 c)  $\frac{4}{9} = 0.\overline{4}$  → 44.4%  
 → TOP ÷ by Bottom  
 Then → more decimal  
 ↘

d)  $\frac{13}{25} = 0.52$  → 52%  
 e)  $\frac{12}{11} = 1.09$  → 109%

**Ex.4 Write each percent as a fraction in simplest form.****How do I do that:**

a) 7%

$$\frac{7}{100}$$

b) 0.51%

$$\frac{0.51}{100} = \frac{51}{10,000}$$

c) 115%

$$\frac{115}{100} \div 5 = \frac{23}{20}$$

→ All percents are out of 100  
 → can top & bottom be divided by the same small #? (Simplify!)

d) 66.13%

$$\frac{66.13}{100} = \frac{6613}{10,000}$$

e) 20%

$$\frac{20}{100} \div 20 = \frac{1}{5}$$

f) 30%

$$\frac{30}{100} \div 10 = \frac{3}{10}$$

\*NO DECIMALS in FINAL ANSWER!

**Ex.5 Express each decimal as a fraction in simplest form:****How do I do that:**

a) 0.23

$$\frac{23}{100}$$

b) 0.3

$$\frac{3}{10}$$

c) 0.0008

$$\frac{8}{10,000} \div 2$$

$$\frac{4}{5,000} \div 2 = \frac{2}{2,500} \div 2$$

$$\frac{1}{1,250}$$

tenths  
 hundredths  
 thousandths  
 ten-thousandths  
 • ANY whole #'s?  
 • Look @ Last decimal

d) .150

$$\frac{150}{1000} \div 5 = \frac{3}{20}$$

e) 47.4

$$47 \frac{4}{10} \div 2 = 47 \frac{2}{5}$$

f) 3.5

$$3 \frac{5}{10} \div 5 = 3 \frac{1}{2}$$

↓ put #  
 ↓ 10...  
 → Reduce/Simplify

\*CHECK BY Dividing!!

# Notes 8-1

Int 1

Fraction, Decimal, Percent, and Rounding

Unit 8

Ex. 6 Round each decimal to the nearest whole number (or ones place):

a)  $54.7\cancel{8}$   
 $\boxed{55}$

b)  $1,083.\cancel{2}$   
 $\boxed{1,083}$

c)  $7.\cancel{482}$   
 $\boxed{7}$

d)  $1.\cancel{909}$   
 $\boxed{2}$

Ex. 7 Round each decimal to the tenths:

e)  $\boxed{54.78}$

f)  $1,083.\cancel{2}$

g)  $7.\cancel{482}$

h)  $1.\cancel{909}$

Ex. 8 Round each decimal to the hundredths:

i) 54.78

j)  $1,083.\bar{2}$

k) 7.482

l) 1.909

**How Do I Round:**

- BOX to include the correct place value
- LOOK 1 # AFTER IGNORE the REST
- 5 or BIGGER  $\uparrow +1$  in BOX
- 0-4 BOX stays same!

Ex.11 Order the set of numbers from least to greatest.

a)  $\cancel{29\%}, \cancel{0.38}, \cancel{55\%}, 0.65, \cancel{\frac{1}{4}}$   
 $0.29$        $0.55$        $0.25$

Small

BIG

How?

- CONVERT them all to the same type
- then put in order!

$\boxed{\frac{1}{4}, 29\%, 0.38, 55\%, 0.65}$