

Remember that multiplying by 100% is the same as multiplying by 1.

% to decimal

1) 6.4%

$$\frac{6.4}{100}$$

0.064

2) 19.5%

0.195

3) 0.7%

0.007

4) 429%

4.29

% to fraction or mixed #

5) 57%

$$\frac{57}{100}$$

6) 18%

$$\frac{18}{100} = \frac{9}{50}$$

7) 5%

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

8) 736%

$$\frac{736}{100} \rightarrow 7\frac{36}{100}$$

$$100 \overline{)736} \begin{array}{r} 7 \\ -700 \\ \hline 36 \end{array}$$

decimal to %

9) 0.68 · 100%

68%

10) 0.03

0.03% → 3%

11) 9.0

9.00% → 900%

12) 0.124

0.124% → 12.4%

fraction or mixed # to %

13)  $\frac{3}{4} \cdot 25 \cdot 100\%$   
75%

14)  $\frac{9}{20} \cdot 5 \cdot 100\%$   
45%

15)  $1\frac{3}{50} \cdot 100\%$   
 $\frac{53}{50} \cdot 2 \cdot 100\%$   
106%

16)  $\frac{5}{7} \cdot 100\%$   
 $\frac{500}{7} \% \rightarrow 71\frac{3}{7} \%$   
$$7 \overline{)500} \begin{array}{r} 71 \\ -49 \\ \hline 10 \\ -7 \\ \hline 3 \end{array}$$

% to fraction or mixed #  
(more challenging ones)

17)  $1\frac{5}{8} \%$   
 $\frac{13}{8} \cdot \frac{1}{100} = \frac{13}{800}$

18) 2.9%  
 $\frac{2.9}{100} \cdot \frac{10}{10} = \frac{29}{1000}$

19)  $33\frac{1}{3} \%$   
 $\frac{100}{3} \cdot \frac{1}{100} = \frac{1}{3}$

20) 6.25%  
 $\frac{6.25}{100} \cdot \frac{100}{100} = \frac{625}{10000}$   
 $\frac{625 \div 25}{10000 \div 25} = \frac{25 \div 25}{400 \div 25} = \frac{1}{16}$

% to decimal

21) 7.3%  
0.073

22) 0.05%  
0.0005

% to fraction or mixed #

23) 40%  
 $\frac{40}{100} = \frac{2}{5}$

24) 75%  
 $\frac{75}{100} = \frac{3}{4}$

decimal to %

25) 18.2 · 100%  
1820%

26) 4.0 → 400%

fraction or mixed # to %  
27)  $\frac{7}{25} \cdot 4 \cdot 100\%$   
28%

28)  $1\frac{1}{4} \cdot 100\%$   
 $\frac{5}{4} \cdot 25 \cdot 100\%$   
125%

% to fraction or mixed #  
(more challenging ones)

29)  $12\frac{1}{2} \%$   
 $\frac{25}{2} \cdot \frac{1}{100} = \frac{1}{8}$

30) 27.5%  
 $\frac{27.5}{100} \cdot \frac{10}{10} = \frac{275 \div 25}{1000 \div 25} = \frac{11}{40}$

% to decimal

31) 23%  
0.23

% to fraction or mixed #

32) 175%  
 $\frac{175}{100} \rightarrow 100 \overline{)175} \begin{array}{r} 1 \\ -100 \\ \hline 75 \end{array}$   
 $1\frac{75}{100} = 1\frac{3}{4}$

decimal to %

33) 3.8 · 100%  
380%

fraction or mixed # to %

34)  $\frac{3}{8} \cdot 25 \cdot 100\%$   
37½%  
 $\frac{75}{2} \% \rightarrow 2 \overline{)75} \begin{array}{r} 37 \\ -6 \\ \hline 15 \\ -14 \\ \hline 1 \end{array}$