

# Practice 1

## Converting Decimals to Fractions (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each decimal to a fraction.

| Thousands<br>1000 | Hundreds<br>100 | Tens<br>10 | Ones<br>1 | Decimal | Tenths<br>0.1 | Hundredths<br>0.01 | Thousandths<br>0.001 |
|-------------------|-----------------|------------|-----------|---------|---------------|--------------------|----------------------|
|                   |                 |            |           |         |               |                    |                      |

0.35 =

0.125 =

0.6 =

0.625 =

0.3 =

0.85 =

0.45 =

0.375 =

0.4 =

0.7 =

0.25 =

0.8 =

0.15 =

0.65 =

0.2 =

0.55 =

## Converting Decimals to Fractions (B)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each decimal to a fraction.

$0.85 =$

$0.05 =$

$0.2 =$

$0.65 =$

$0.25 =$

$0.6 =$

$0.3 =$

$0.7 =$

$0.375 =$

$0.75 =$

$0.875 =$

$0.125 =$

$0.9 =$

$0.8 =$

$0.35 =$

$0.625 =$

$0.1 =$

$0.4 =$

$0.5 =$

$0.55 =$

# Practice (2)

Name \_\_\_\_\_

Date \_\_\_\_\_



## CONVERT FRACTION TO PERCENT 3

Convert these fractions to percentages by converting them to decimals and multiplying by 100. Round all your percentages to the nearest decimal place.

1)  $\frac{1}{5} =$

2)  $\frac{3}{4} =$

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

4)  $\frac{4}{9} =$

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

6)  $\frac{7}{16} =$

7)  $\frac{2}{10} =$

8)  $\frac{11}{3} =$

9)  $\frac{7}{8} =$

10)  $\frac{8}{15} =$

11)  $\frac{8}{3} =$

12)  $\frac{14}{20} =$

13)  $\frac{7}{12} =$

14)  $\frac{14}{10} =$

15)  $\frac{7}{9} =$

16)  $\frac{7}{11} =$

17)  $\frac{11}{25} =$

18)  $\frac{12}{13} =$

19)  $\frac{12}{9} =$

20)  $\frac{9}{5} =$

21)  $\frac{9}{20} =$

22)  $\frac{9}{4} =$

23)  $\frac{5}{12} =$

24)  $\frac{4}{7} =$

25)  $\frac{19}{22} =$

26)  $\frac{13}{20} =$

27)  $\frac{3}{11} =$

28)  $\frac{6}{7} =$

*You will probably need to use a calculator to help you with these questions.*



Name \_\_\_\_\_

Date \_\_\_\_\_



### CONVERT FRACTION TO PERCENT 1

Convert these fractions to percentages using the denominator method.

1)  $\frac{1}{2} = \frac{\quad}{100} = \quad\% \quad 10) \frac{4}{5} = \frac{\quad}{100} = \quad\%$

2)  $\frac{3}{10} = \frac{\quad}{100} = \quad\% \quad 11) \frac{7}{20} = \frac{\quad}{100} = \quad\%$

3)  $\frac{7}{10} = \frac{\quad}{100} = \quad\% \quad 12) \frac{7}{50} = \frac{\quad}{100} = \quad\%$

4)  $\frac{1}{4} = \frac{\quad}{100} = \quad\% \quad 13) \frac{4}{25} = \frac{\quad}{100} = \quad\%$

5)  $\frac{1}{5} = \frac{\quad}{100} = \quad\% \quad 14) \frac{9}{20} = \frac{\quad}{100} = \quad\%$

6)  $\frac{3}{4} = \frac{\quad}{100} = \quad\% \quad 15) \frac{11}{50} = \frac{\quad}{100} = \quad\%$

7)  $\frac{2}{5} = \frac{\quad}{100} = \quad\% \quad 16) \frac{6}{5} = \frac{\quad}{100} = \quad\%$

8)  $\frac{9}{10} = \frac{\quad}{100} = \quad\% \quad 17) \frac{5}{2} = \frac{\quad}{100} = \quad\%$

9)  $\frac{1}{20} = \frac{\quad}{100} = \quad\% \quad 18) \frac{7}{4} = \frac{\quad}{100} = \quad\%$

Name \_\_\_\_\_

Date \_\_\_\_\_



### CONVERT FRACTION TO PERCENT 2

Convert these fractions to percentages using the denominator method. The first one has been done for you.

1)  $\frac{4}{5} = \frac{80}{100} = 80\% \quad 10) \frac{5}{4} = \frac{\quad}{\quad} = \quad\%$

2)  $\frac{7}{10} = \frac{\quad}{100} = \quad\% \quad 11) \frac{13}{10} = \frac{\quad}{\quad} = \quad\%$

3)  $\frac{9}{20} = \frac{\quad}{100} = \quad\% \quad 12) 1 \frac{1}{4} = \frac{\quad}{\quad} = \quad\%$

4)  $\frac{3}{25} = \frac{\quad}{\quad} = \quad\% \quad 13) 2 \frac{1}{2} = \frac{\quad}{\quad} = \quad\%$

5)  $\frac{13}{50} = \frac{\quad}{\quad} = \quad\% \quad 14) 1 \frac{2}{5} = \frac{\quad}{\quad} = \quad\%$

6)  $\frac{7}{25} = \frac{\quad}{\quad} = \quad\% \quad 15) 1 \frac{3}{10} = \frac{\quad}{\quad} = \quad\%$

7)  $\frac{21}{50} = \frac{\quad}{\quad} = \quad\% \quad 16) \frac{9}{4} = \frac{\quad}{\quad} = \quad\%$

8)  $\frac{3}{4} = \frac{\quad}{\quad} = \quad\% \quad 17) 3 \frac{2}{25} = \frac{\quad}{\quad} = \quad\%$

9)  $\frac{11}{20} = \frac{\quad}{\quad} = \quad\% \quad 18) \frac{23}{10} = \frac{\quad}{\quad} = \quad\%$

# Practice # 3

Name \_\_\_\_\_

Date \_\_\_\_\_



## CONVERTING FRACTION TO PERCENT SUPPORT

There are 2 ways to convert a fraction to a percent: using the Denominator Method or using the Decimal Conversion Method.

### The Denominator Method

- This is a great method to use if the denominator is a factor of 100.

Step 1) Divide 100 by the denominator to give you the Multiplier.

Step 2) Multiply both the numerator and denominator of your fraction by the Multiplier to give an equivalent fraction with a denominator of 100. The numerator is your percentage.

**Example:** Convert  $\frac{3}{5}$  to a percentage.

You will notice that the denominator, which is 5, is a factor of 100.

Step 1)  $100 \div 5 = 20$ , so our Multiplier is 20.

Step 2) We need to multiply the numerator and denominator by 20.

$$\text{So } \frac{3}{5} = \frac{3 \times 20}{5 \times 20} = \frac{60}{100} = 60\%$$

*You have now changed your fraction to a percentage.*

### The Decimal Conversion Method

Step 1) Convert your fraction to a decimal by dividing the numerator by the denominator.

Step 2) Multiply the decimal by 100 to change it into a percent.

**Example 1:** Convert  $\frac{3}{5}$  to a percentage.

To convert the fraction to a decimal we divide the numerator by the denominator.

$$\frac{3}{5} = 3 \div 5 = 0.6$$

Next multiply by 100 to change it to a percentage.

$$0.6 \times 100 = 60. \quad \text{So } \frac{3}{5} = 60\%$$

Name \_\_\_\_\_

Date \_\_\_\_\_



## CONVERT FRACTION TO PERCENT 2

Convert these fractions to percentages using the denominator method. The first one has been done for you.

1)  $\frac{4}{5} = \frac{80}{100} = 80\%$

10)  $\frac{5}{4} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

2)  $\frac{7}{10} = \frac{\hspace{1cm}}{100} = \underline{\hspace{1cm}}\%$

11)  $\frac{13}{10} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

3)  $\frac{9}{20} = \frac{\hspace{1cm}}{100} = \underline{\hspace{1cm}}\%$

12)  $1 \frac{1}{4} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

4)  $\frac{3}{25} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

13)  $2 \frac{1}{2} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

5)  $\frac{13}{50} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

14)  $1 \frac{2}{5} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

6)  $\frac{7}{25} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

15)  $1 \frac{3}{10} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

7)  $\frac{21}{50} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

16)  $\frac{9}{4} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

8)  $\frac{3}{4} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

17)  $3 \frac{2}{25} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

9)  $\frac{11}{20} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$

18)  $\frac{23}{10} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}\%$



Name \_\_\_\_\_

Date \_\_\_\_\_



## CONVERT FRACTION TO PERCENT 1

Convert these fractions to percentages using the denominator method.

1)  $\frac{1}{2} = \frac{\quad}{100} = \quad\%$

10)  $\frac{4}{5} = \frac{\quad}{100} = \quad\%$

2)  $\frac{3}{10} = \frac{\quad}{100} = \quad\%$

11)  $\frac{7}{20} = \frac{\quad}{100} = \quad\%$

3)  $\frac{7}{10} = \frac{\quad}{100} = \quad\%$

12)  $\frac{7}{50} = \frac{\quad}{100} = \quad\%$

4)  $\frac{1}{4} = \frac{\quad}{100} = \quad\%$

13)  $\frac{4}{25} = \frac{\quad}{100} = \quad\%$

5)  $\frac{1}{5} = \frac{\quad}{100} = \quad\%$

14)  $\frac{9}{20} = \frac{\quad}{100} = \quad\%$

6)  $\frac{3}{4} = \frac{\quad}{100} = \quad\%$

15)  $\frac{11}{50} = \frac{\quad}{100} = \quad\%$

7)  $\frac{2}{5} = \frac{\quad}{100} = \quad\%$

16)  $\frac{6}{5} = \frac{\quad}{100} = \quad\%$

8)  $\frac{9}{10} = \frac{\quad}{100} = \quad\%$

17)  $\frac{5}{2} = \frac{\quad}{100} = \quad\%$

9)  $\frac{1}{20} = \frac{\quad}{100} = \quad\%$

18)  $\frac{7}{4} = \frac{\quad}{100} = \quad\%$

Name \_\_\_\_\_

Date \_\_\_\_\_



## CONVERT FRACTION TO PERCENT 3

Convert these fractions to percentages by converting them to decimals and multiplying by 100. Round all your percentages to the nearest decimal place.

1)  $\frac{1}{5} =$

2)  $\frac{3}{4} =$

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

4)  $\frac{4}{9} =$

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

6)  $\frac{7}{16} =$

7)  $\frac{2}{10} =$

8)  $\frac{11}{3} =$

9)  $\frac{7}{8} =$

10)  $\frac{8}{15} =$

11)  $\frac{8}{3} =$

12)  $\frac{14}{20} =$

13)  $\frac{7}{12} =$

14)  $\frac{14}{10} =$

15)  $\frac{7}{9} =$

16)  $\frac{7}{11} =$

17)  $\frac{11}{25} =$

18)  $\frac{12}{13} =$

19)  $\frac{12}{9} =$

20)  $\frac{9}{5} =$

21)  $\frac{9}{20} =$

22)  $\frac{9}{4} =$

23)  $\frac{5}{12} =$

24)  $\frac{4}{7} =$

25)  $\frac{19}{22} =$

26)  $\frac{13}{20} =$

27)  $\frac{3}{11} =$

28)  $\frac{6}{7} =$

*You will probably need to use a calculator to help you with these questions.*



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## FRACTIONS TO DECIMALS & PERCENTS SHEET 1



| FRACTION       | DECIMAL | PERCENT |
|----------------|---------|---------|
| $\frac{1}{2}$  |         |         |
| $\frac{3}{4}$  |         |         |
| $\frac{2}{5}$  |         |         |
| $\frac{1}{8}$  |         |         |
| $\frac{7}{8}$  |         |         |
| $\frac{1}{4}$  |         |         |
| $\frac{7}{10}$ |         |         |
| $\frac{3}{10}$ |         |         |
| $\frac{1}{3}$  |         |         |
| $\frac{5}{6}$  |         |         |
| $\frac{2}{9}$  |         |         |
| $\frac{5}{4}$  |         |         |
| $\frac{3}{16}$ |         |         |
| $\frac{8}{5}$  |         |         |
| $\frac{7}{50}$ |         |         |

## FRACTIONS TO DECIMALS & PERCENTS SHEET 2



| FRACTION           | DECIMAL | PERCENT |
|--------------------|---------|---------|
| $\frac{27}{100}$   |         |         |
| $\frac{3}{8}$      |         |         |
| $\frac{2}{3}$      |         |         |
| $\frac{13}{50}$    |         |         |
| $\frac{81}{100}$   |         |         |
| $\frac{9}{10}$     |         |         |
| $\frac{5}{8}$      |         |         |
| $\frac{5}{4}$      |         |         |
| $\frac{7}{9}$      |         |         |
| $\frac{5}{16}$     |         |         |
| $\frac{6}{11}$     |         |         |
| $\frac{19}{25}$    |         |         |
| $\frac{17}{20}$    |         |         |
| $1\frac{3}{5}$     |         |         |
| $2\frac{7}{10}$    |         |         |
| $\frac{135}{1000}$ |         |         |
| $\frac{119}{100}$  |         |         |

Name

Date

## DECIMALS TO PERCENTS &amp; FRACTIONS SHEET 2



| DECIMAL | PERCENT | FRACTION                       |
|---------|---------|--------------------------------|
| 0.25    | 25%     | $\frac{25}{100} = \frac{1}{4}$ |
| 0.9     |         |                                |
| 0.28    |         |                                |
| 0.84    |         |                                |
| 0.75    |         |                                |
| 0.3     |         |                                |
| 0.09    |         |                                |
| 0.375   |         |                                |
| 1.4     |         |                                |
| 0.27    |         |                                |
| 0.15    |         |                                |
| 0.006   |         |                                |
| 0.625   |         |                                |
| 1.75    |         |                                |
| 1.14    |         |                                |
| 0.72    |         |                                |
| 0.01    |         |                                |

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Name

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## FRACTIONS, DECIMALS &amp; PERCENTS SHEET 3



| FRACTION       | DECIMAL | PERCENT |
|----------------|---------|---------|
| $\frac{1}{4}$  | 0.25    |         |
| $\frac{4}{5}$  |         |         |
| $\frac{7}{10}$ |         | 70%     |
|                | 0.3     |         |
|                | 0.9     |         |
|                | 0.24    |         |
|                |         | 60%     |
|                |         | 20%     |
|                |         | 14%     |
| $\frac{1}{8}$  | 0.79    |         |
|                |         | 86%     |
|                | 0.36    |         |
| $\frac{3}{4}$  |         |         |
|                | 0.45    |         |
|                |         | 37.5%   |
| $\frac{2}{3}$  |         |         |

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

5

Practice

## Percentage of Number Worksheet

Calculate the percentages.

|                |                |
|----------------|----------------|
| 1 a. 10% of 8  | 1 b. 10% of 28 |
| 2 a. 80% of 46 | 2 b. 10% of 30 |
| 3 a. 60% of 2  | 3 b. 80% of 34 |
| 4 a. 40% of 4  | 4 b. 50% of 26 |
| 5 a. 40% of 46 | 5 b. 80% of 22 |
| 6 a. 20% of 10 | 6 b. 80% of 36 |
| 7 a. 10% of 14 | 7 b. 80% of 38 |
| 8 a. 30% of 28 | 8 b. 40% of 20 |

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Percentage of Number Worksheet

Calculate the percentages.

|                 |                 |
|-----------------|-----------------|
| 1 a. 12% of 278 | 1 b. 11% of 582 |
| 2 a. 5% of 967  | 2 b. 18% of 973 |
| 3 a. 6% of 986  | 3 b. 9% of 573  |
| 4 a. 74% of 440 | 4 b. 21% of 89  |
| 5 a. 26% of 390 | 5 b. 12% of 18  |
| 6 a. 11% of 924 | 6 b. 84% of 931 |
| 7 a. 9% of 896  | 7 b. 7% of 790  |
| 8 a. 25% of 735 | 8 b. 29% of 870 |