

# Worksheet (8) |

Lower Secondary  
Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

Subject: Math

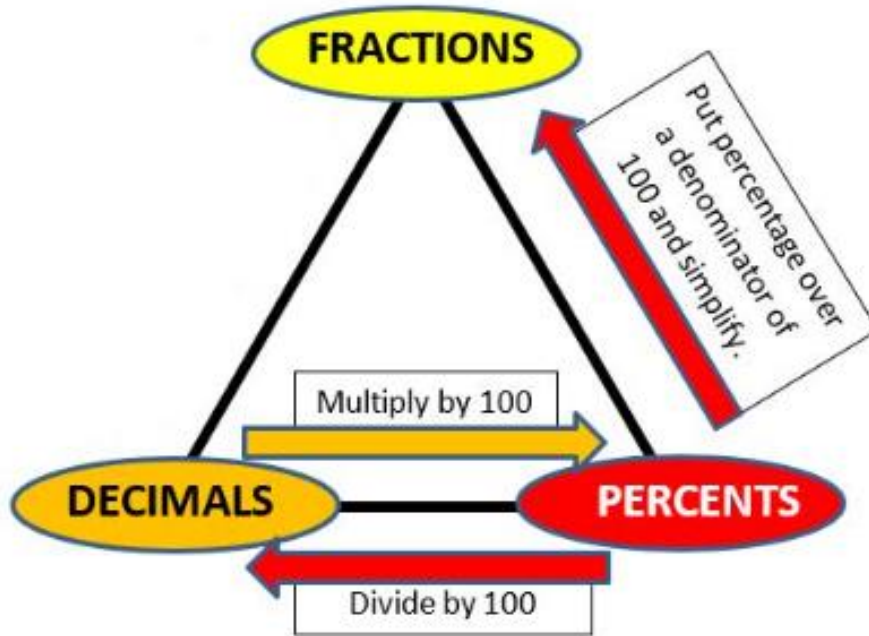
Name: \_\_\_\_\_

Objectives:

- To change between fractions, decimals and percentages.

Chapter: 6 (Fractions)

Grade 6 CS



**Exercise (1):** Complete the table.

<b>Fraction</b>	<b>Decimal</b>	<b>Percent</b>
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75 %
$\frac{2}{5}$	0.4	40 %
$1\frac{3}{5}$	1.60	160 %
$\frac{7 \times 12.5}{8 \times 12.5} = \frac{87.5}{100}$	0.875	87.5 %
$2\frac{7}{10}$	2.70	270 %
$\frac{135 \div 10}{1000 \div 10} = \frac{13.5}{100}$	0.135	13.5 %
$\frac{119}{100}$	1.19	119 %
$\frac{5 \times 25}{4 \times 25} = \frac{125}{100}$	1.25	125 %
$\frac{7 \times 2}{50 \times 2} = \frac{14}{100}$	0.14	14 %

**Exercise (2):** Complete the table.

<b>Decimal</b>	<b>Percent</b>	<b>Fraction</b>
<b>0.6</b>	<b>60 %</b>	$\frac{6}{10}$ or $\frac{60}{100}$
<b>0.2</b>	<b>20 %</b>	$\frac{2}{10}$ or $\frac{20}{100}$
<b>0.5</b>	<b>50 %</b>	$\frac{50}{100}$
<b>0.75</b>	<b>75 %</b>	$\frac{75}{100}$
<b>0.12</b>	<b>12 %</b>	$\frac{12}{100}$
<b>0.04</b>	<b>4 %</b>	$\frac{4}{100}$
<b>0.0255</b>	<b>2.55 %</b>	$\frac{2.55}{100}$ or $\frac{255}{10000}$
<b>1.3</b>	<b>130 %</b>	$1\frac{3}{10}$ or $\frac{130}{100}$
<b>5.021</b>	<b>502.1 %</b>	$5\frac{21}{1000}$ or $\frac{502.1}{100}$

**Exercise (3):** Complete the table.

Percentage	Decimal	Fraction
<b>90%</b>	<b>0.9</b>	$\frac{90}{100}$
<b>55%</b>	<b>0.55</b>	$\frac{55}{100}$
<b>2%</b>	<b>0.02</b>	$\frac{2}{100}$
<b>150%</b>	<b>1.50</b>	$1\frac{50}{100}$
<b>300%</b>	<b>3</b>	$\frac{300}{100} = 3$
<b>12.5 %</b>	<b>0.125</b>	$\frac{12.5}{100}$
<b>124%</b>	<b>1.24</b>	$1\frac{24}{100}$
<b>37.5 %</b>	<b>0.375</b>	$\frac{37.5}{100}$
<b>135 %</b>	<b>1.35</b>	$\frac{135}{100}$

**Exercise (4):**

a) Convert these fractions to percentages. (The denominator should be 100)

a) $\frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 75\%$	b) $\frac{7 \times 10}{10 \times 10} = \frac{70}{100} = 70\%$	c) $\frac{2 \times 20}{5 \times 20} = \frac{40}{100} = 40\%$	d) $\frac{5 \times 12.5}{8 \times 12.5} = \frac{62.5}{100} = 62.5\%$
e) $\frac{3 \times 5}{20 \times 5} = \frac{15}{100} = 15\%$	f) $\frac{1 \times 25}{4 \times 25} = \frac{25}{100} = 25\%$	g) $\frac{57}{100} = 57\%$	h) $\frac{14 \times 4}{25 \times 4} = \frac{56}{100} = 56\%$

b) Convert these decimals to percentages. (multiply by 100)

a) $0.9 \times 100 = 90\%$	b) $0.35 \times 100 = 35\%$	c) $0.23 \times 100 = 23\%$	d) $1.08 \times 100 = 108\%$
e) $0.450 \times 100 = 45\%$	f) $0.128 \times 100 = 12.8\%$	g) $0.02574 \times 100 = 2.574\%$	h) $12.58 \times 100 = 1258\%$

c) Convert these percentages into decimals. (Divide by 100)

a) $40\% \div 100 = 0.40$	b) $25\% \div 100 = 0.25$	c) $8\% \div 100 = 0.08$	d) $129\% \div 100 = 1.29$
e) $258\% \div 100 = 2.58$	f) $1\% \div 100 = 0.01$	g) $9\% \div 100 = 0.09$	h) $97\% \div 100 = 0.97$

**Exercise (5):** Complete the table.

<b>Fraction</b>	<b>Decimal</b>	<b>Percentage</b>
$\frac{1}{4}$	<b>0.25</b>	<b>25 %</b>
$\frac{4}{5}$	<b>0.8</b>	<b>80 %</b>
$\frac{7}{10}$	<b>0.7</b>	<b>70 %</b>
$\frac{24}{100}$	<b>0.24</b>	<b>24 %</b>
$\frac{37.5}{100}$ or $\frac{375}{1000}$	<b>0.375</b>	<b>37.5 %</b>
$3\frac{89}{100}$ or $\frac{389}{100}$	<b>3.89</b>	<b>389 %</b>
$4\frac{58}{100}$ or $\frac{458}{100}$	<b>4.58</b>	<b>458 %</b>
$\frac{258}{100}$	<b>2.58</b>	<b>258 %</b>
$\frac{8.8}{100}$ or $\frac{88}{1000}$	<b>0.088</b>	<b>8.8 %</b>