

Worksheet (8) |

Lower Secondary

Stage (6-8)

1st Semester | 2023-2024

Subject: Math

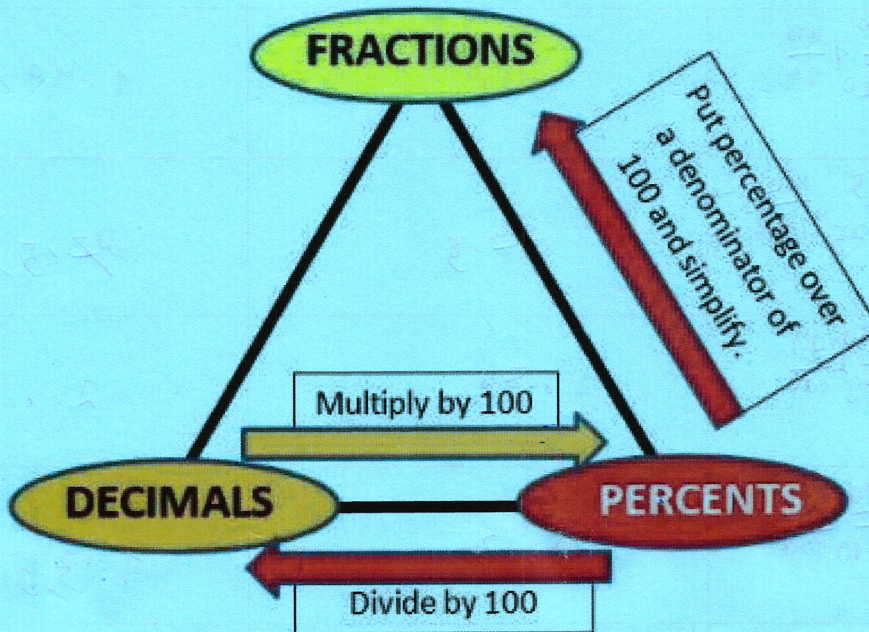
Name: _____

Objectives:

- To change between fractions, decimals and percentages.

Chapter: 6 (Fractions)

Grade 6 CS



Exercise (1): Complete the table.

Fraction	Decimal	Percent
$\frac{1}{2} \times \frac{50}{50} = \frac{50}{100}$	0.50	50%
$\frac{3}{4} \times \frac{25}{25} = \frac{75}{100}$	0.75	75%
$\frac{2}{5} \times \frac{20}{20} = \frac{40}{100}$	0.40	40%
$1 \frac{3}{5} \times \frac{20}{20} = 1 \frac{40}{100}$	1.40	1.40%
$\frac{7}{8} \times \frac{125}{125} = \frac{875}{1000} \div 10 = \frac{87.5}{100}$	0.875	87.5%
$2 \frac{7}{10} \times \frac{10}{10} = 2 \frac{70}{100}$	2.70	2.70%
$\frac{135}{1000} \div 10 = \frac{13.5}{100}$	0.135	13.5%
$\frac{119}{100}$	1.19	1.19%
$\frac{5}{4} \times \frac{25}{25} = \frac{125}{100}$	1.25	125%
$\frac{7}{50} \times \frac{2}{2} = \frac{14}{100}$	0.14	14%

Exercise (2): Complete the table.

Decimal	Percent	Fraction
0.6×100	60%	$\frac{60}{100}$
0.2×100	20%	$\frac{20}{100}$
0.5×100	50%	$\frac{50}{100}$
0.75×100	75%	$\frac{75}{100}$
0.12×100	12%	$\frac{12}{100}$
0.04×100	4%	$\frac{4}{100}$
0.0255×100	2.55%	$\frac{255}{100}$
1.3×100	130%	$\frac{130}{100}$
5.021×100	502.1%	$\frac{5021}{100}$

Exercise (3): Complete the table.

Percentage	Decimal	Fraction
90%	0.90	$\frac{90}{100}$
55%	0.55	$\frac{55}{100}$
2%	0.02	$\frac{2}{100}$
150%	1.50	$\frac{150}{100}$
300%	3.00	$\frac{300}{100}$
12.5 %	0.125	$\frac{12.5}{100}$
124%	1.24	$\frac{124}{100}$
37.5 %	0.375	$\frac{37.5}{100}$
135 %	1.35	$\frac{135}{100}$

Exercise (4):

a) Convert these fractions to percentages.

a) $\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 75\%$	b) $\frac{7}{10} = \frac{7 \times 10}{10 \times 10} = \frac{70}{100} = 70\%$	c) $\frac{2}{5} = \frac{2 \times 20}{5 \times 20} = \frac{40}{100} = 40\%$	d) $\frac{5}{8} = \frac{5 \times 125}{8 \times 125} = \frac{625}{1000} \stackrel{\div 10}{=} \frac{62.5}{100} = 62.5\%$
e) $\frac{3}{20} = \frac{3 \times 5}{20 \times 5} = \frac{15}{100} = 15\%$	f) $\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 75\%$	g) $\frac{57}{100} = 57\%$	h) $\frac{14}{25} = \frac{14 \times 4}{25 \times 4} = \frac{56}{100} = 56\%$

$\times 100$

b) Convert these decimals to percentages.

a) $0.9 = 90\%$	b) $0.35 = 35\%$	c) $0.23 = 23\%$	d) $1.08 = 108\%$
e) $0.450 = 45.0\%$	f) $0.128 = 12.8\%$	g) $0.02574 = 2.574\%$	h) $12.58 = 1258\%$

$\div 100$

c) Convert these percentages into decimals.

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

Exercise (5): Complete the table.

Fraction	Decimal	Percentage
$\frac{1}{4} = \frac{1 \times 25}{4 \times 25} = \frac{25}{100}$	0.25	25%
$\frac{4}{5} = \frac{4 \times 20}{5 \times 20} = \frac{80}{100}$	0.80	80%
$\frac{70}{100}$	0.70	70%
$\frac{24}{100}$	0.24	24%
$\frac{37.5}{100}$	0.375	37.5%
$\frac{389}{100}$	100 × 3.89	389%
$\frac{458}{100}$	4.58	458%
$\frac{258}{100}$	2.58	258%
$\frac{8.8}{100}$	0.088 × 100	8.8%