#### **1075 LOVU SANGAM SCHOOL LESSON NOTES**

<u>SUBJECT</u> : MATHS	<u>WORKSHEET</u> : 01/2021	<u>YEAR</u> : 7
TRAND	NUMBER AND NUMERATION	
UB- STRAND	FRACTIONS	
ONTENT LEARNING OUTCOME	Demonstrate and represent fractions as parts of whole quantity, mass,	
	length or a dollar	

# **EXPLORING FRACTIONS**

### What is a Fraction?

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• A Fraction is a way of representing division of a whole into part or when an object is divided into a number of equal parts then each part is a **Fraction**. Note: The

denominator

because we cannot divide

by 0.

can never be 0

• Each Fraction has 2 parts;

Numerator is the number of parts chosen or divided into Denominator is the Total Number of Parts

#### FRACTIONS TYPE

There are 3 types of Fractions

<b>PROPER FRACTION</b>	IMPROPER FRACTION	MIXED NUMBER			
Numerator < Denominator	Numerator > Denominator Mixed Number has a whole num				
	Numerator = Denominator	and a Proper Fraction. For example,			
Proper Fraction is where the	Improper Fraction is where the	$2\frac{1}{2}$ or $125\frac{18}{12}$			
Numerator is smaller than the	Numerator is bigger than or equal to	5 20			
Denominator. For example, the Denominator. For example,					
<u>1 8 4 6 180</u>	$\frac{18}{18}$ or $\frac{20}{18}$				
5 20 7 15 205	2 20				

### SHOWING FRACTIONS AS A PERCENTAGE

> A percentage is a convenient way of writing fractions that have a denominator of 100. 'Percent' written as "%" means 'per 100' or 'for every 100'.

Eg. 
$$7 \% = \frac{7}{100}$$

- > To change fractions to percentages, first change the denominator of the fraction to 100.
  - $\frac{3}{20} \times \frac{5}{5} = \frac{15}{100} = 15\%$ Eg.
- To write a percentage as a Fraction or Mixed Number, first write it as a fraction with denominator 100, then  $\geq$ simplify (make it smaller) 1R 1

Eg. 
$$125\% = \frac{125}{100} \div \frac{5}{5} = \frac{25}{20} \div \frac{5}{5} = \frac{5}{4}$$
 Now, let's change this to Mixed Number;  $\frac{5}{4}$  4 5  $\frac{5}{4} = 1\frac{1}{4}$   
FRACTION OF A OUANTITY  $\frac{-4}{1}$ 

## **FRACTION OF A QUANTITY**

#### Examples:

- We need to change to smaller units to make the working easier.
- 1. Find  $\frac{3}{5}$  of a meter (1m = 100cm) 2. What fraction of an hour is 40 minutes?  $\frac{3}{5}$  of a meter  $=\frac{3}{5} \times \frac{100 \text{ cm}}{1}$ (1 Hour = 60 minutes)So, we get,  $\frac{40\text{minutes}}{60\text{minutes}}$ (Simplify the fraction always)  $\frac{40\text{minutes}}{60\text{ minutes}} = \frac{4}{6} \div \frac{2}{2} = \frac{2}{3}$  $=\frac{300 \text{ cm}}{1}$

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# ACTIVITIES

1. What fraction of each figure is shaded? a)





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a) 33%	b) 13%	c) 25%	d) 5%

4. Change each percentage to a mixed number. a) 250% b) 140% c) 109%

5. Express each as a percentage

a) 
$$\frac{1}{20}$$
 b)  $\frac{16}{50}$ 

6. Find:

b)  $\frac{1}{3}$  of 3m a)  $\frac{1}{4}$  of an hour

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7. What fraction is? a) 50c of \$1

b) 60cm of 2m