Fractions

Fraction is a part of a whole. Observe the fractions (shaded part) of the circle.

$$\frac{3}{3} \qquad \frac{3}{4} \qquad \frac{3}{5} \qquad \frac{3}{6}$$

$$\frac{3}{8} \qquad \frac{3}{10} \qquad \frac{3}{12} \qquad \frac{3}{20}$$

In words, ½ is one half   2/5 is two-fifth   4/6 is four-sixth

I. Look at the picture below. Complete the blanks.

Date: 16·12·24	C.W	H.W
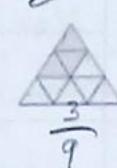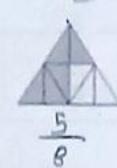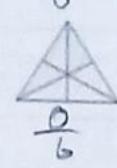
Shape	Symbol	Words
	$\frac{1}{4}$	one quarter
	$\frac{2}{3}$	two thirds
	$\frac{3}{6}$	three sixth
	$\frac{1}{5}$	one fifth
	$\frac{1}{2}$	one half
	$\frac{2}{8}$	two eighth
	$\frac{2}{4}$	two quarters

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Look at the following figures and write the fraction for shaded parts.

$\frac{3}{8}$ $\frac{7}{10}$ $\frac{2}{6}$ $\frac{4}{12}$ $\frac{2}{8}$

$\frac{2}{3}$ $\frac{2}{4}$ $\frac{0}{6}$ $\frac{5}{8}$ $\frac{3}{9}$

$\frac{5}{10}$ $\frac{7}{9}$ $\frac{4}{12}$ $\frac{5}{13}$ $\frac{10}{14}$

$\frac{3}{8}$ $\frac{4}{9}$ $\frac{6}{10}$ $\frac{4}{11}$ $\frac{9}{12}$
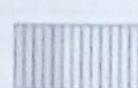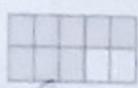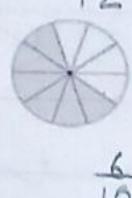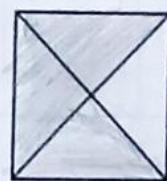
II. Colour a part of the whole to represent the given fraction.
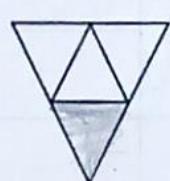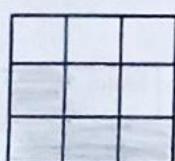
(i) $\frac{3}{4}$ (ii) $\frac{1}{6}$ (iii) $\frac{1}{4}$

(iv) $\frac{4}{9}$ (v) $\frac{1}{6}$ (vi) $\frac{5}{8}$

16/12

Numerator and Denominator

The numerator is the number on the top of a fraction.

The denominator is the number below a fraction

$$\frac{3}{5}$$ ⟵ numerator ⟵ denominator

I. Write the numerator and denominator for the following fractions and illustrate the same.

Date:	C.W	H.W

a)	$\frac{5}{10}$	Numerator Denominator
b)	$\frac{6}{8}$	Numerator Denominator
c)	$\frac{7}{14}$	Numerator Denominator
d)	$\frac{8}{10}$	Numerator Denominator
e)	$\frac{7}{18}$	Numerator Denominator
f)	$\frac{4}{10}$	Numerator Denominator

II. Read the statement sums and answer the following.

Date:	C.W	H.W

1) There are 5 dresses on display. 3 of the dresses are red and 2 are yellow. What fraction of the dress is yellow?

Numerator: _____2_____ Denominator: _____5_____ Fraction: $\frac{2}{5}$

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2) My denominator is twice that of my numerator. The sum of my numerator and denominator is 9. What fraction am I?

1	2	3	4
—	—	—	—
2	4	6	8

3) The sum of my numerator and denominator is 10. My numerator is the smallest odd number. What fraction am I?

1	2	3	4
—	—	—	—
9	8	7	6
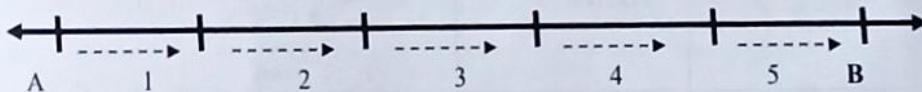
4) The difference between my numerator and denominator is 3. My denominator is the greatest odd number that is smaller than 10. What fraction am I?

7	4	6	9
—	—	—	—
10	7	9	12
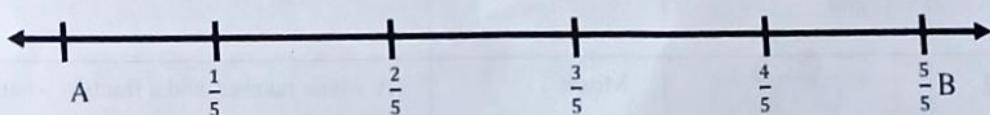
Fractions using number line

Steps to identify a fraction on the number line

1. Count the spaces between A and B(denominator)

A   1   2   3   4   5 B
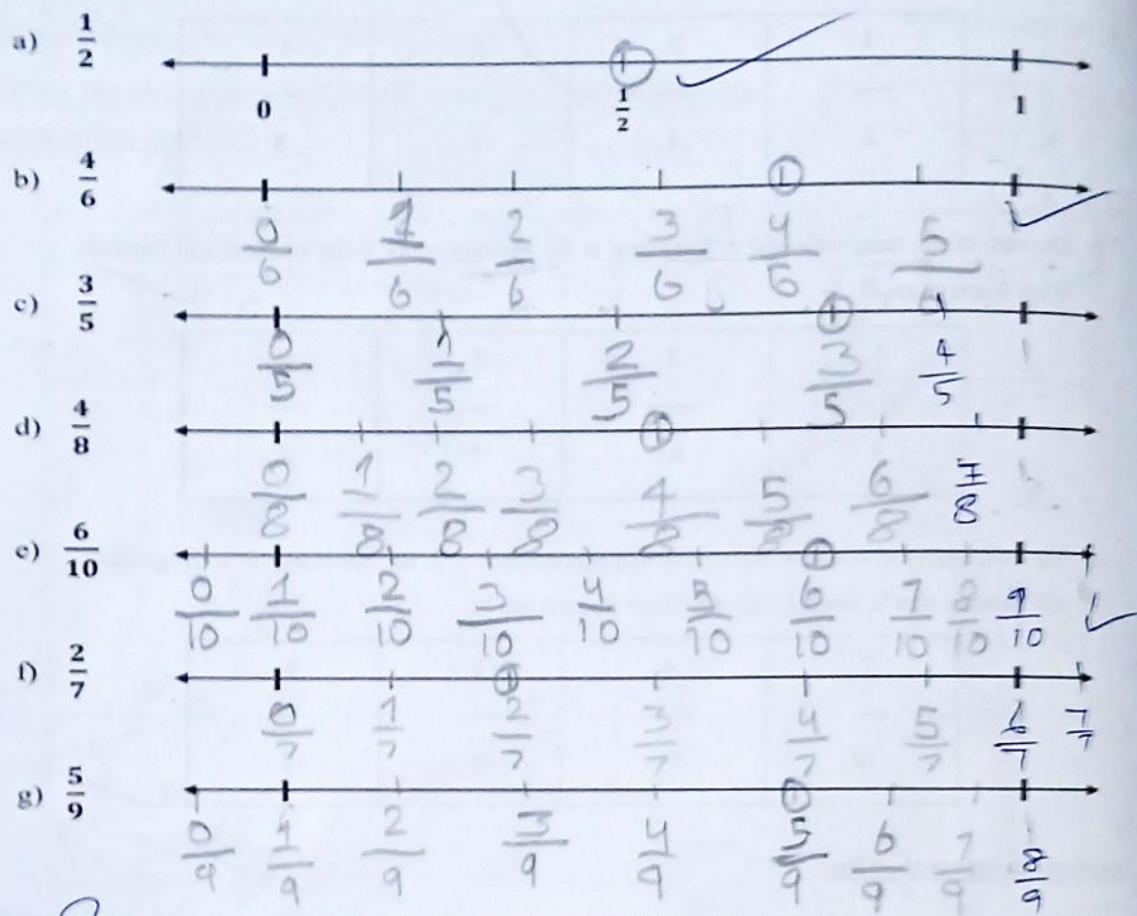
2. Count the sticks (numerator)

A $\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ $\frac{5}{5}$ B

I. Represent the fractions in the number line.

a) $\frac{1}{2}$

(number line with 0, $\frac{1}{2}$, 1 marked)

b) $\frac{4}{6}$

(number line marked $\frac{0}{6}$, $\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{6}$, $\frac{4}{6}$, $\frac{5}{6}$)

c) $\frac{3}{5}$

(number line marked $\frac{0}{5}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$)

d) $\frac{4}{8}$

(number line marked $\frac{0}{8}$, $\frac{1}{8}$, $\frac{2}{8}$, $\frac{3}{8}$, $\frac{4}{8}$, $\frac{5}{8}$, $\frac{6}{8}$, $\frac{7}{8}$)

e) $\frac{6}{10}$

(number line marked $\frac{0}{10}$, $\frac{1}{10}$, $\frac{2}{10}$, $\frac{3}{10}$, $\frac{4}{10}$, $\frac{5}{10}$, $\frac{6}{10}$, $\frac{7}{10}$, $\frac{8}{10}$, $\frac{9}{10}$)

f) $\frac{2}{7}$

(number line marked $\frac{0}{7}$, $\frac{1}{7}$, $\frac{2}{7}$, $\frac{3}{7}$, $\frac{4}{7}$, $\frac{5}{7}$, $\frac{6}{7}$, $\frac{7}{7}$)

g) $\frac{5}{9}$

(number line marked $\frac{0}{9}$, $\frac{1}{9}$, $\frac{2}{9}$, $\frac{3}{9}$, $\frac{4}{9}$, $\frac{5}{9}$, $\frac{6}{9}$, $\frac{7}{9}$, $\frac{8}{9}$)

19/12

Proper, Improper and Mixed fraction

$\frac{2}{5}$	(grid of squares)	Proper Fraction	The numerator is smaller than the denominator.
$\frac{7}{3}$	(grid of squares)	Improper Fraction	The numerator is greater than the denominator
$2\frac{1}{3}$	(grid of squares)	Mixed Fraction	A whole number and a fraction together.