WELCOME

SUBJECT : MATHEMATICS

TOPIC : PARTS AND WHOLES

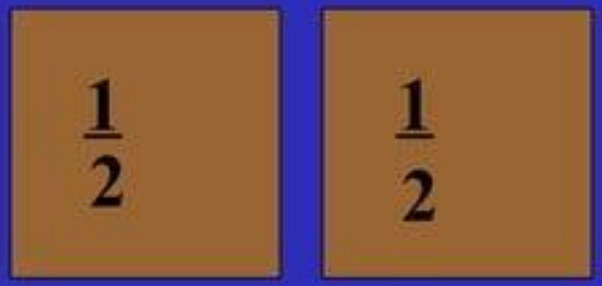
CLASS : V

Fraction - Part of a whole

1

1/2

Chocolate Bar - The Whole Piece



Shared between two children

Each one gets a half of the chocolate.

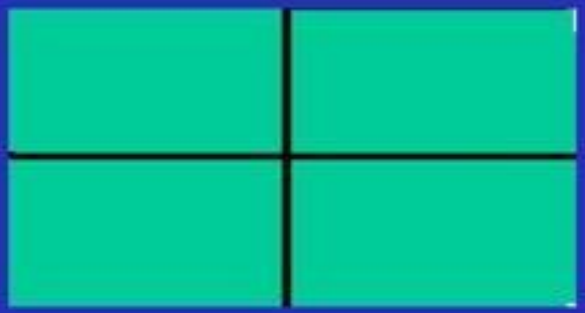
1/2

1 is the numerator

2 is the denominator

Numerator tells us that out of two equal parts of the whole, 1 is taken.

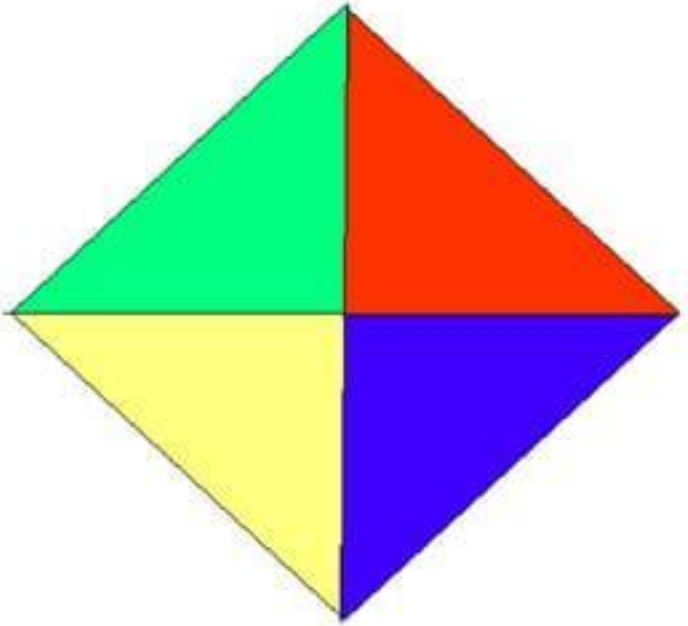
Denominator tells us that the whole is divided into two equal parts.



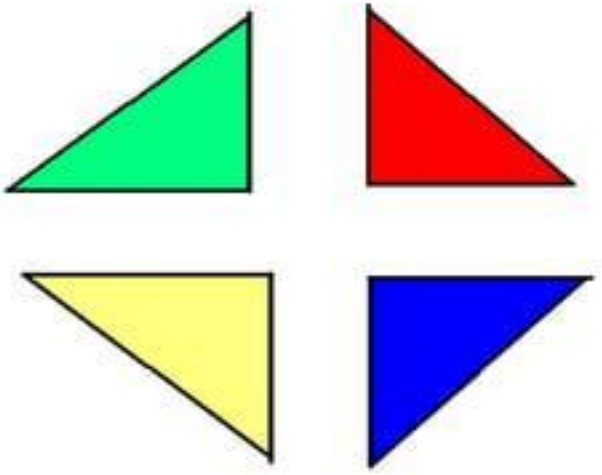
When divided between four children

1/4	1/4
1/4	1/4

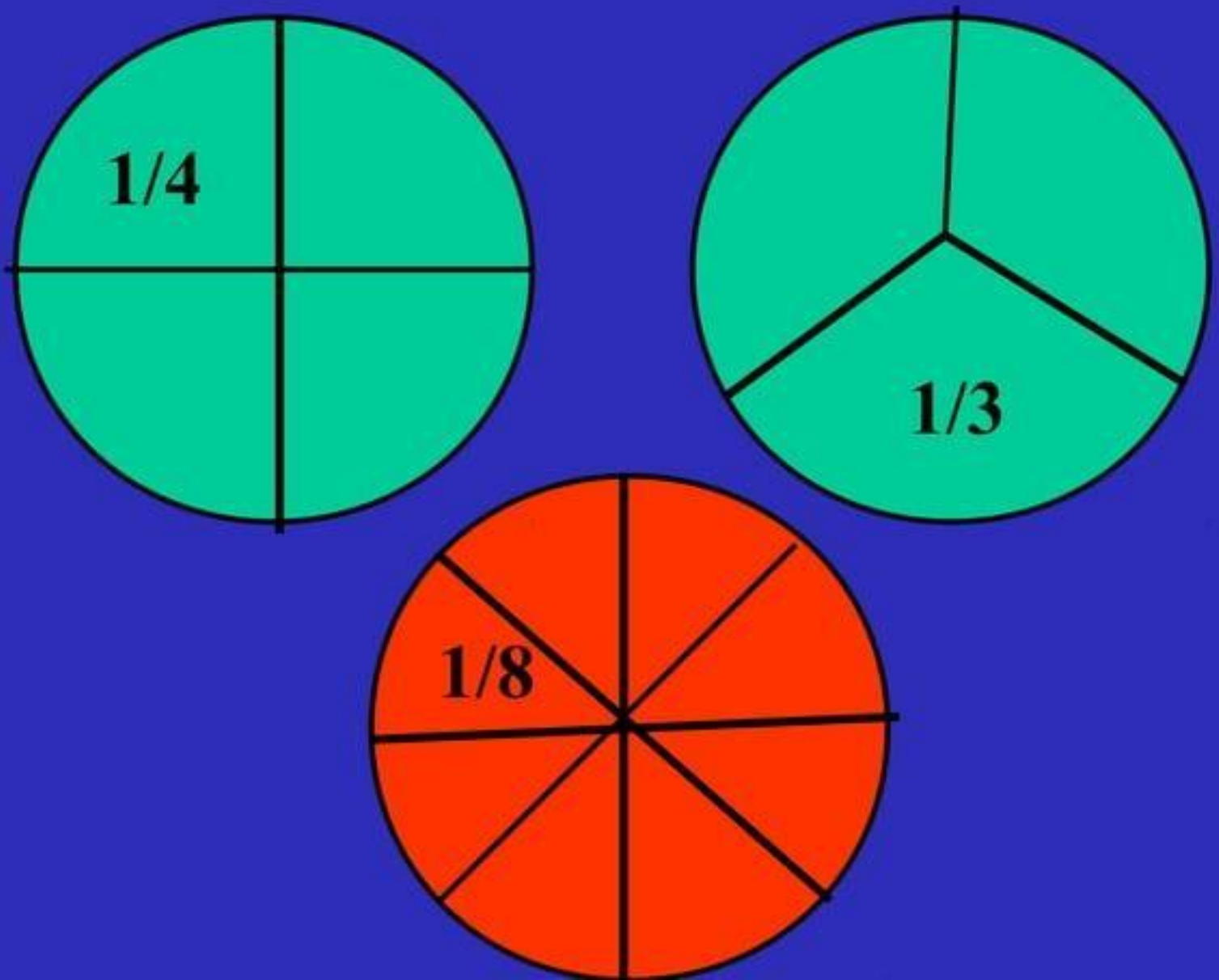
Each child gets a quarter or ¼ th of the chocolate.

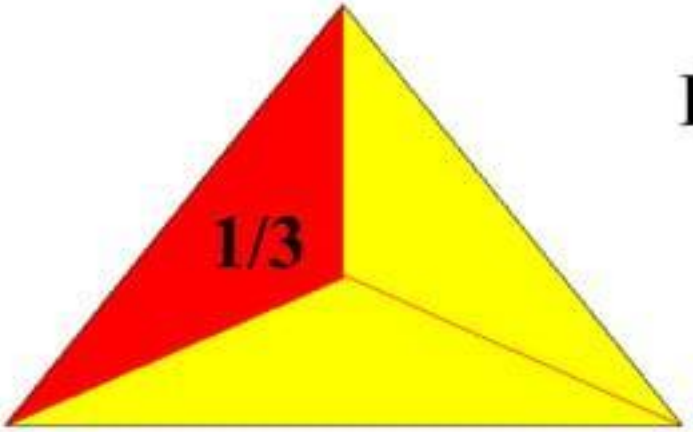


•The whole is divided into four equal parts.

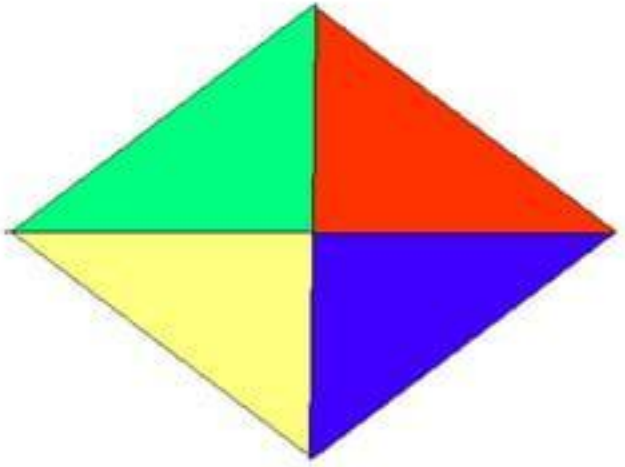


•For one part out of four we say one - fourth and we write ¼.


1/4
1/3
1/8



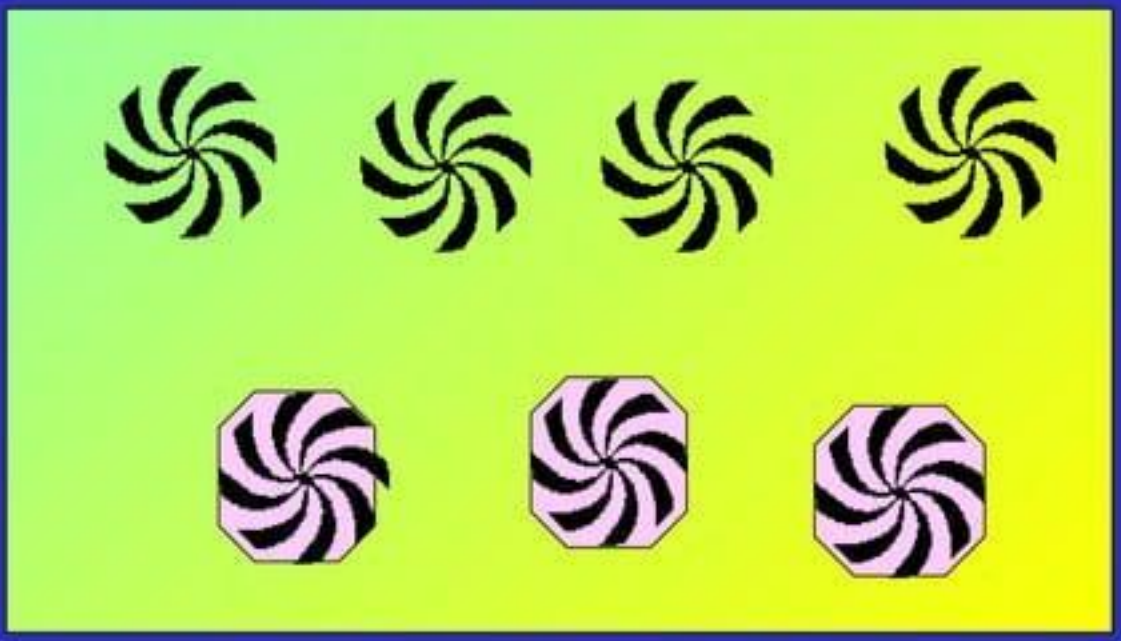
For one part out of three we say one third and we write 1/3.



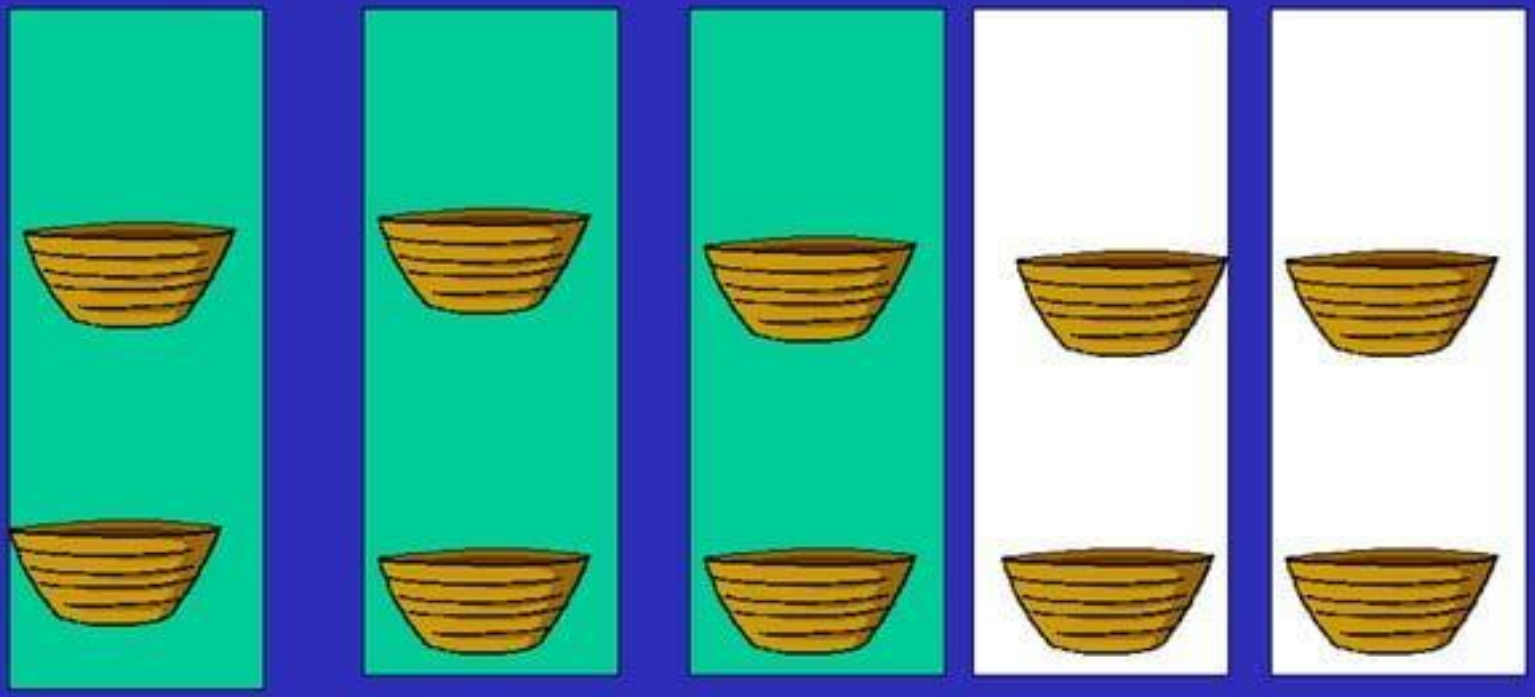
1/4

The whole is divided into four equal parts. For one part out of four we say one fourth and we write ¼.

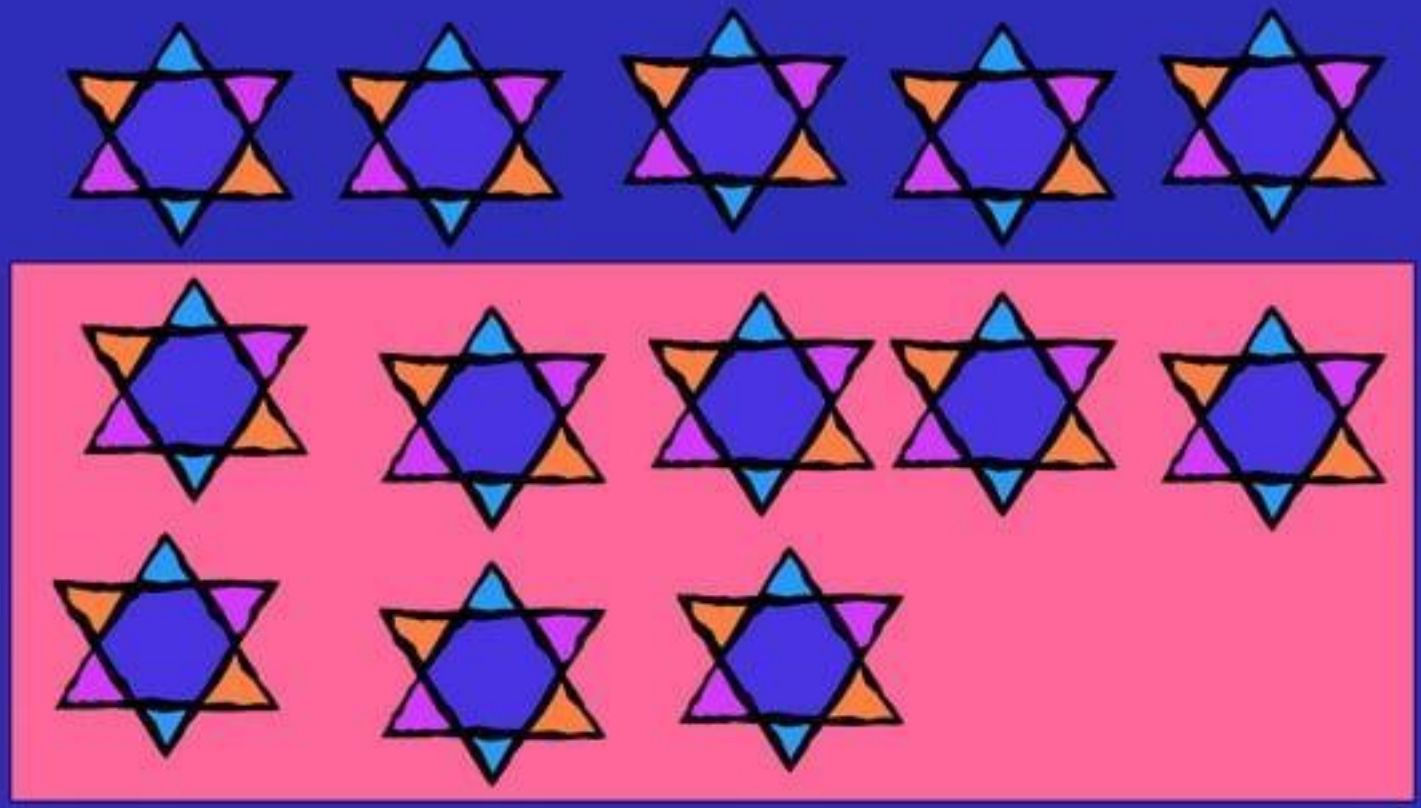
Fraction as a part of a collection.



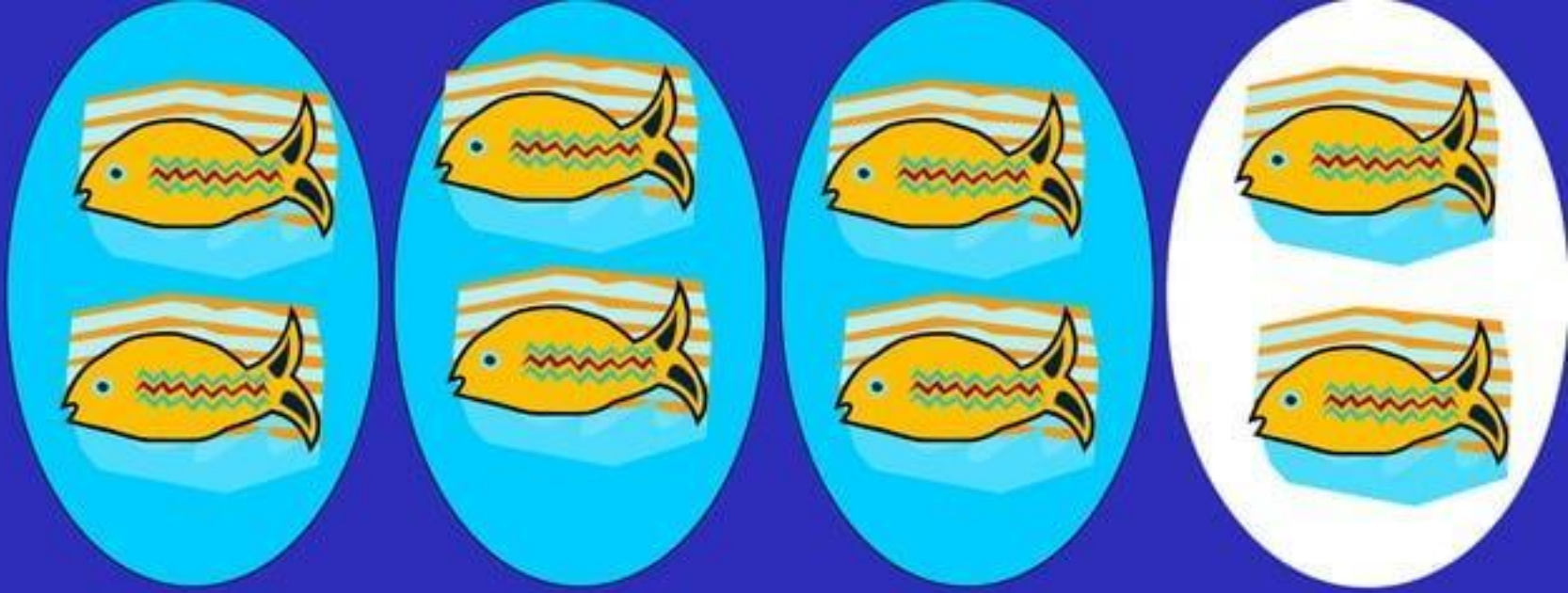
Three out of seven-3/7



Three out of five ---- 3/5

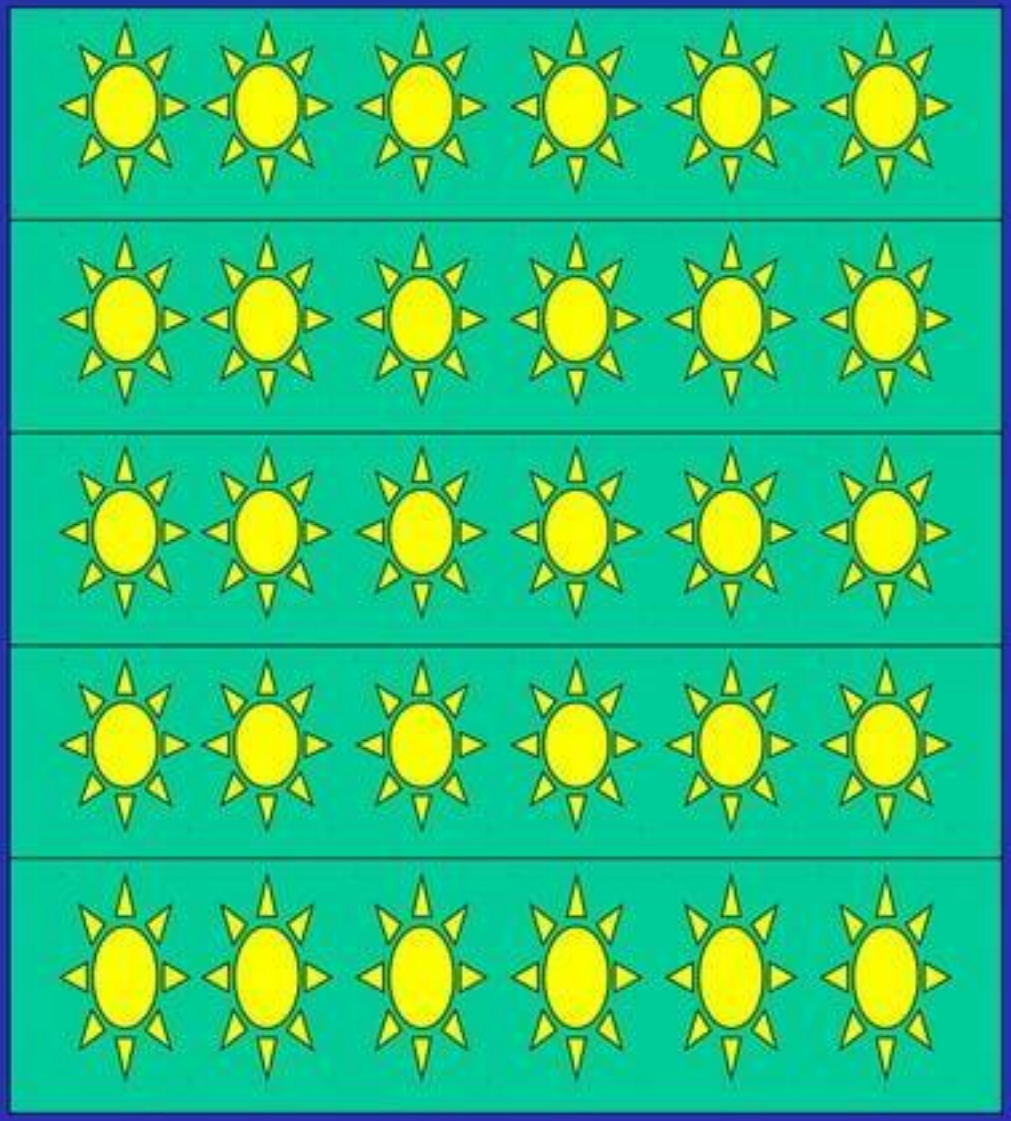


Eight out of thirteen- We say eight thirteenths and we write 8/13



Three out of four or

Three - fourths - 3/4



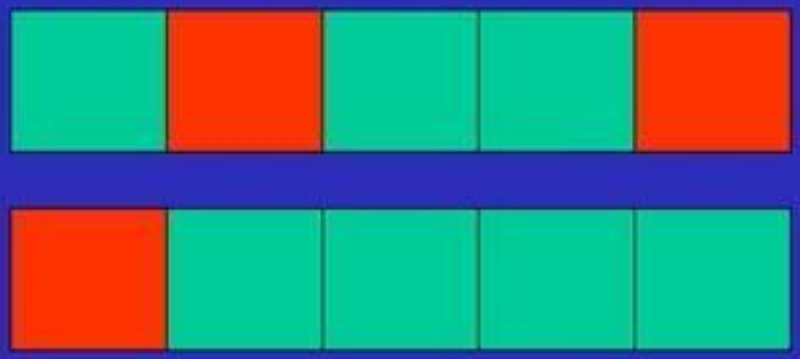
There are thirty flowers.

- 3/5 of 30 is 18
- 2/6 of 30 is 10

TYPES OF FRACTIONS

- LIKE AND UNLIKE FRACTIONS
- PROPER AND IMPROPER FRACTIONS

Like And Unlike Fractions



2/5

1/5

Fractions with the same denominators are called

Like Fractions.

LIKE FRACTIONS

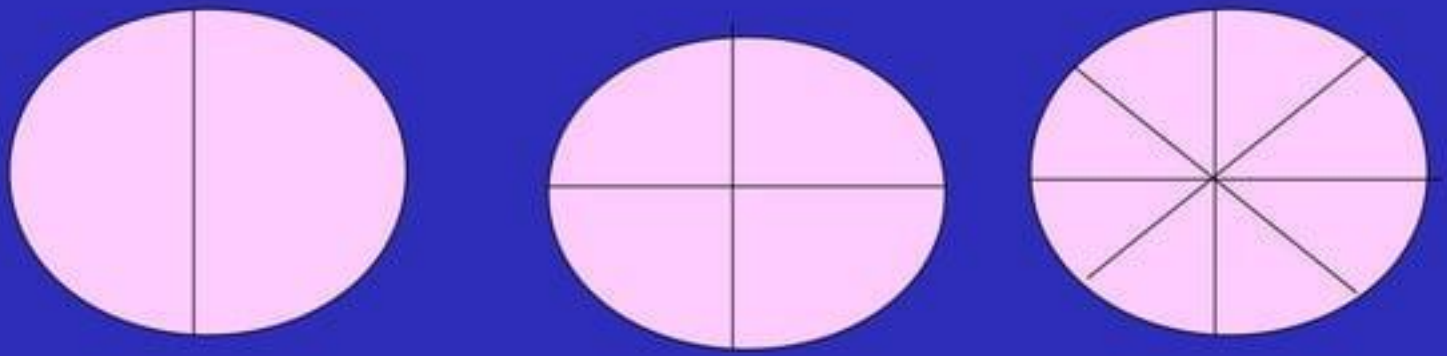
1/5 , 2/5 , 3/5 , 4/5

are Like Fractions.

Denominator is the same in all the fractions given above.

That is 5.

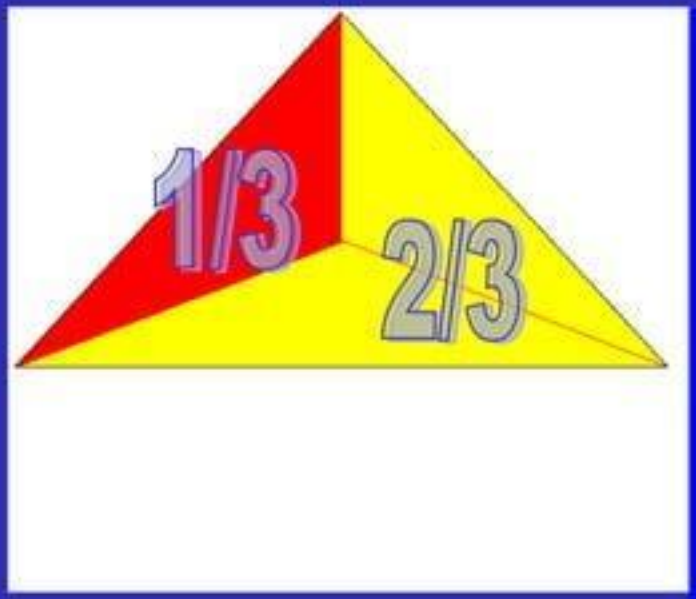
Unlike Fractions



1/2 1/4 3/8

Fractions with different denominators are called Unlike Fraction.

PROPER AND IMPROPER FRACTIONS

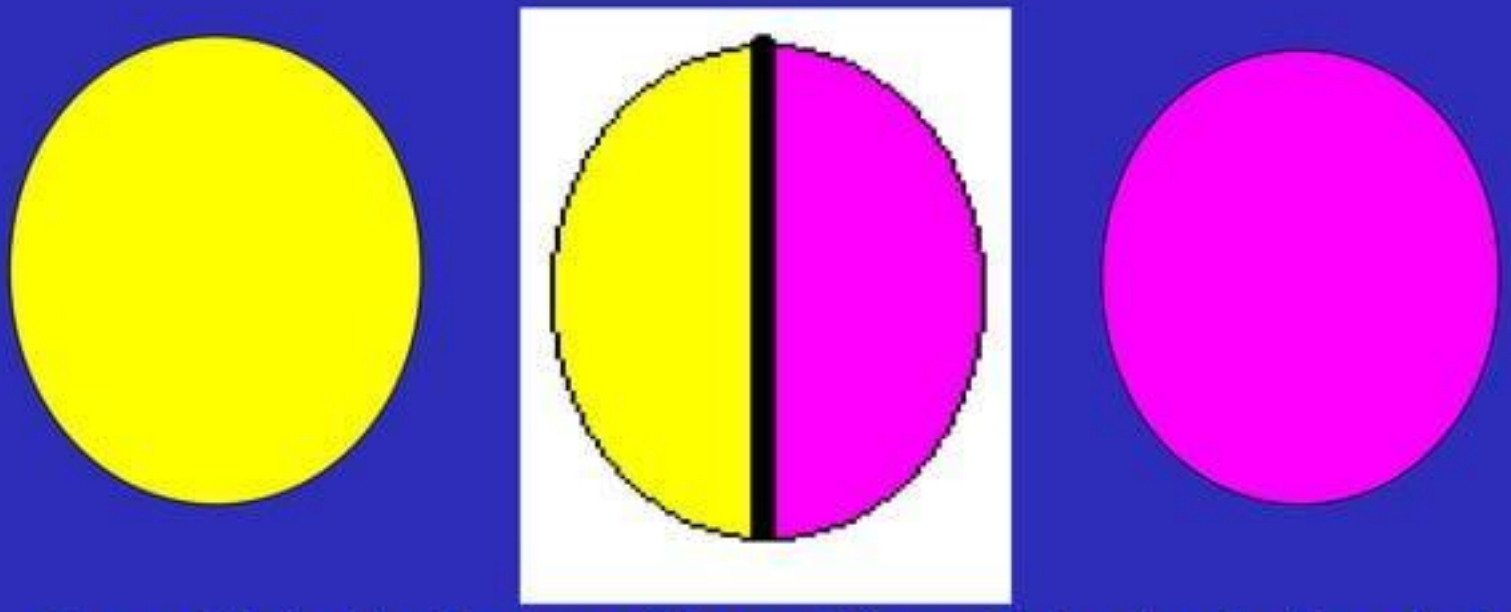


1/3, 2/3 are Proper Fractions.

The fractions with numerator less than the denominators are called PROPER FRACTIONS.

Eg: 2/5,3/4, 5/7, 7/9 etc.

IMPROPER FRACTIONS

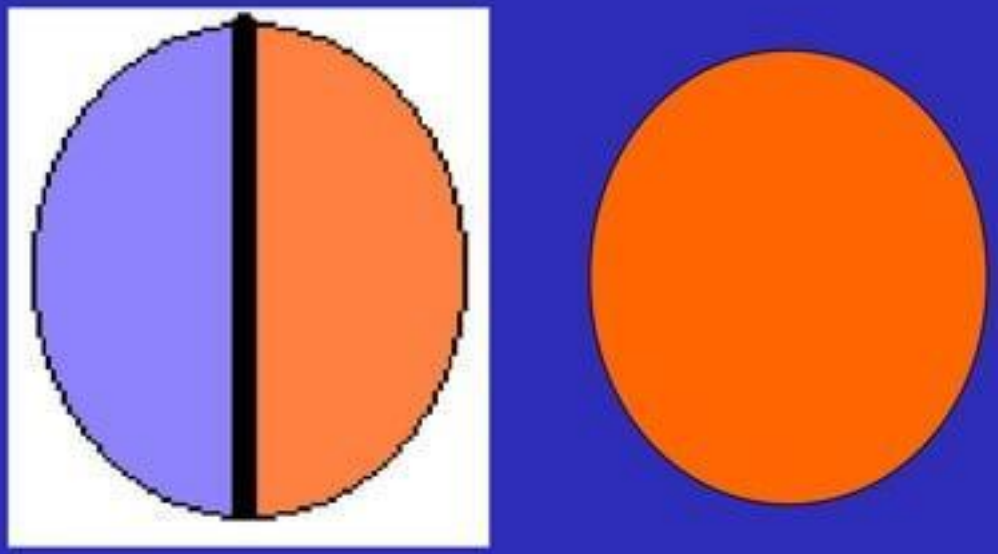


1 and ½ circle is yellow, ½ and 1 circle is pink.

Each part represents an improper fraction – 3/2=1 + 1/2

A Fraction with numerator greater than or equal to the denominator is called an IMPROPER FRACTION

MIXED FRACTION



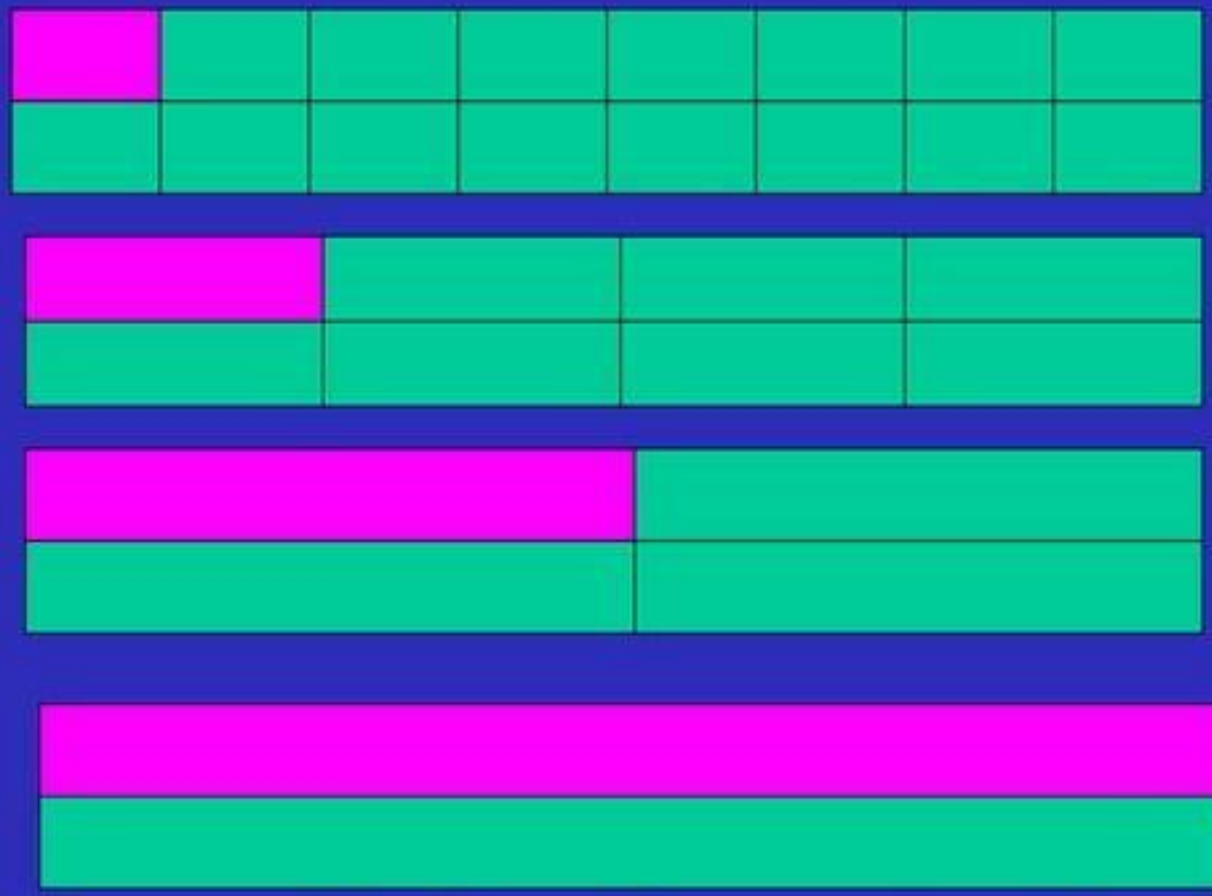
1 + ½ circle is in orange ,so 1 + ½ =3/2= 1 ½

When an improper fraction is written as a combination of a whole number and a proper fraction,it is called a

MIXED FRACTION OR A MIXED NUMBER

Ex:-1 1/3, 2 3/4 , 1 7/8, 2 4/7 are all mixed numbers

UNIT FRACTIONS



1/16

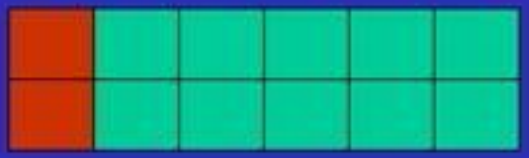
1/8

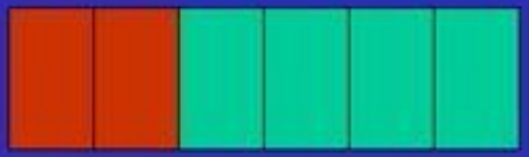
1/4

1/2

A proper fraction with numerator 1 is called a unit fraction.ex:-1/2,1/3,1/4,1/5,1/6 are all UNIT FRACTIONS

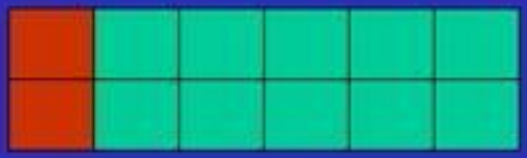
SAY FRACTION FOR THE SHADED PORTION(RED)

(a)  2/12

(b)  2/6

(c)  2/3

SAY FRACTION FOR THE SHADED PORTION(GREEN)

(a) 

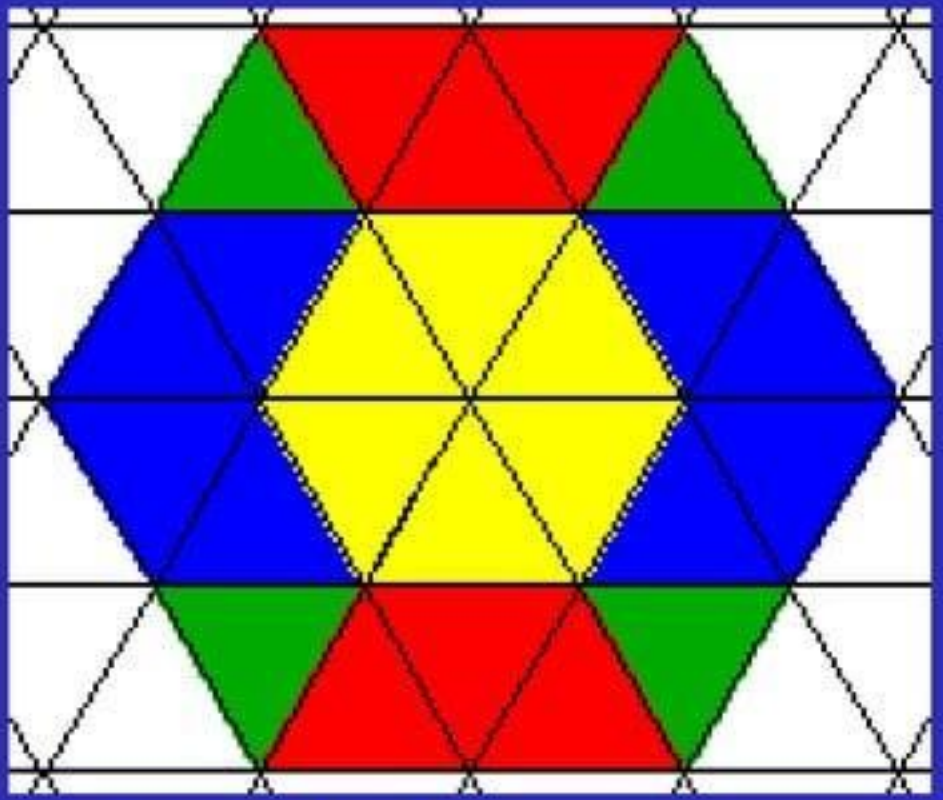
10/12

(b) 

4/6

(c) 

1/3



- What fraction of the design is blue?

8/28

- What fraction of the design is red?

6/28

- What fraction of the design is yellow?

6/28

- What fraction of the design is green?

4/28

Name the type of fractions.

- Fractions with Numerators > or = Denominators
- Improper Fractions
- Fractions with the same denominators
- Like fractions
- Fractions with the numerator 1
- Unit Fractions
- Fractions with different denominators
- Unlike Fractions

GROUP -1

Q. PREPARE AMANS TIME TABLE USING DIFFERENT COLOURS

- SLEEPING 1/3RD OF THE DAY
- STUDYING 1/4TH OF THE DAY
- PLAYING 1/8TH OF THE DAY

GROUP -2

Q. COLOUR THE GIVEN GRIDS OF 16 SQUARES IN TWO DIFFERENT WAYS BY MAKING PATTERNS WITH 8/16 BLUE AND 8/16 YELLOW

GROUP -3

Q. DIVIDE EACH OF THE TRIANGLE IN TWO DIFFERENT WAYS. COLOUR 1/3RD OF EACH RECTANGLE.

GROUP - 4

Q. DIVIDE EACH OF THE TWO RECTANGLE INTO SIX EQUAL PARTS IN TWO DIFRENT WAYS AND COLOUR 1/6TH OF EACH OF THE RECTANGLE.


THANK YOU