SNBP International & Senior Secondary School, Chikhali, Pune.
Affiliation No. 1130703 Academic session 2024-25
CHAPTER 9 PARTS OF A WHOLE NOTES
(PT3)

Class : III

SUBJECT : Maths

Prepared by: TEJALI GOTE L .No: 9

9 Parts of a Whole

Let's Begin

Look at the picture. Answer the following questions.

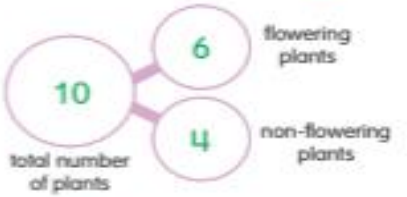
a. How many total plants did Tia's uncle bring? 10

b. Circle the type of plant that is more in number.

i. Flowering plants

ii. Non-flowering plants

c. Represent the plants using number bonds.



d. Divide the pots of flowering plants into two groups such that each group has equal share.

e. What if the pots of flowering plants are two be divided into 3 equal parts?

Concrete Stage

Cut a 10 cm ribbon into:

a 2 equal parts

b 4 equal parts

Answer: Answer may vary.

Pictorial Stage

1 Tick (✓) the pictures that are divided into equal parts.

a  ☑

b  ☐

c  ☐

d  ☑

e  ☐

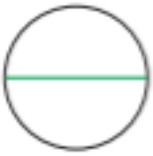
2 Write the number of equal parts.

a  3 equal parts

b  4 equal parts

c  8 equal parts

3 Draw lines to cut the given shapes into 2 euqal parts. Try to find more than 1 way.

a 

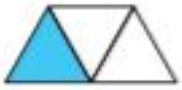
b 

c 

Abstract Stage

1. Tia wants to divide a square piece of paper into 4 equal parts. Draw two different pictures to show what her paper could look like.

2. Write the number of △ needed to cover the shape.

a  3

b  4

c  6

d  2

e  5

f  3

Think Aloud

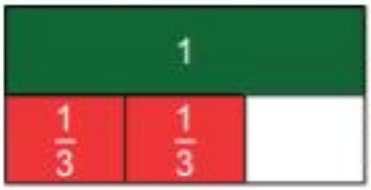
How many equal triangles can you make from these shapes?

a

b 

Answer: Answer may vary.

3



The whole (represented as 1) is divided into 3 equal parts and each part is said to be one-third of the whole.

Each fraction is written as $\frac{1}{3}$.

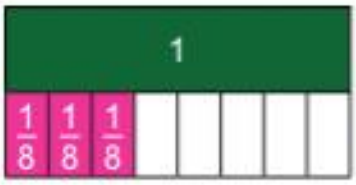
The shaded part is represented as $2 \times \frac{1}{3} = \frac{2}{3}$.

The whole (represented as 1) is divided into 5 equal parts and each part is said to be one-fifth of the whole.

Each fraction is written as $\frac{1}{5}$.

The shaded part is represented as $4 \times \frac{1}{5} = \frac{4}{1}$.

4



The whole (represented as 1) is divided into 8 equal parts and each part is said to be one-eighth of the whole.

Each fraction is written as $\frac{1}{8}$.

The shaded part is represented as $3 \times \frac{1}{8} = \frac{3}{8}$.

How much of each strip is shaded?

The whole strip is shaded. It is 1 whole.

The strip has 2 equal parts. It is called half and written as $\frac{1}{2}$.

The strip has 3 equal parts. It is called two-third and written as $\frac{2}{3}$.

The strip has 4 equal parts. It is called one-fourth or quarter and written as $\frac{1}{4}$.

Quick Maths

- To read fractions, read the numerator as an cardinal number and the denominator as a ordinal number.
- If the parts of a whole are not equal, we cannot represent them as a fraction.

Think Aloud

Kim says that $\frac{6}{1}$ of the triangle is shaded. Is she correct? Why/why not? How would you represent it?

Concrete Stage

1. How many fraction tiles of each will you use to make a whole?

a) $\frac{1}{2}$ b) $\frac{1}{4}$ c) $\frac{1}{8}$ d) $\frac{1}{12}$

2. How many fraction tiles of will you use to represent the given fractions? Draw and show.

a) $\frac{2}{4}$

S

b $\frac{3}{3}$ 

c $\frac{3}{10}$ 

d $\frac{3}{8}$ 

Pictorial Stage

1. Write the shaded parts of the shapes as fractions.

a  $\frac{4}{5}$

b  $\frac{2}{8}$

c  $\frac{1}{3}$

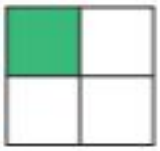
2. Shade the parts of the shape according to the given fractions.

a $\frac{1}{3}$ 

b $\frac{2}{4}$ 

c $\frac{5}{8}$ 

3. What fraction of the shape is shaded? What fraction of the shape is not shaded?



shaded $\frac{1}{4}$

not shaded $\frac{3}{4}$

Abstract Stage

1. Fill in the boxes.

a $\frac{3}{4}$ = [3] out of [4] equal parts

b $\frac{7}{12}$ = [7] out of [12] equal parts

2. Write the missing fractions to make a whole.

a $\frac{1}{5}$ and $\frac{[4]}{5}$ make 1 whole.

b $\frac{5}{8}$ and $\frac{[3]}{8}$ make 1 whole.

3. Six friends share a pizza equally. How much of a pizza does each friend get if the pizza is divided into 6 equal slices? Draw a model to explain it.

Worksheet 9.2

6

Blooming Questions

1. Choose the best term from the box to complete the sentences.

a. Numerator (Numerator/Denominator) is a number that names part of a whole.

b. Denominator (Numerator/Denominator) tells us how many equal parts are in a whole.

2. Write the shaded part of the shapes as fractions.

a.  $\frac{5}{6}$

b.  $\frac{5}{15}$

c.  $\frac{6}{9}$

3. Tia and Zen have coloured few petals of the given flower. What fraction of the flower petals did Tia and Zen colour?

Answer: Answer may vary.

4. Draw lines to show how much each person gets. Write the answers.

a. 4 classmates share a sandwich equally

b. 4 brothers share 2 sandwiches equally

Answer: Answer may vary.

Mental Maths

Tick (✓) the shapes that are divided into equal parts.

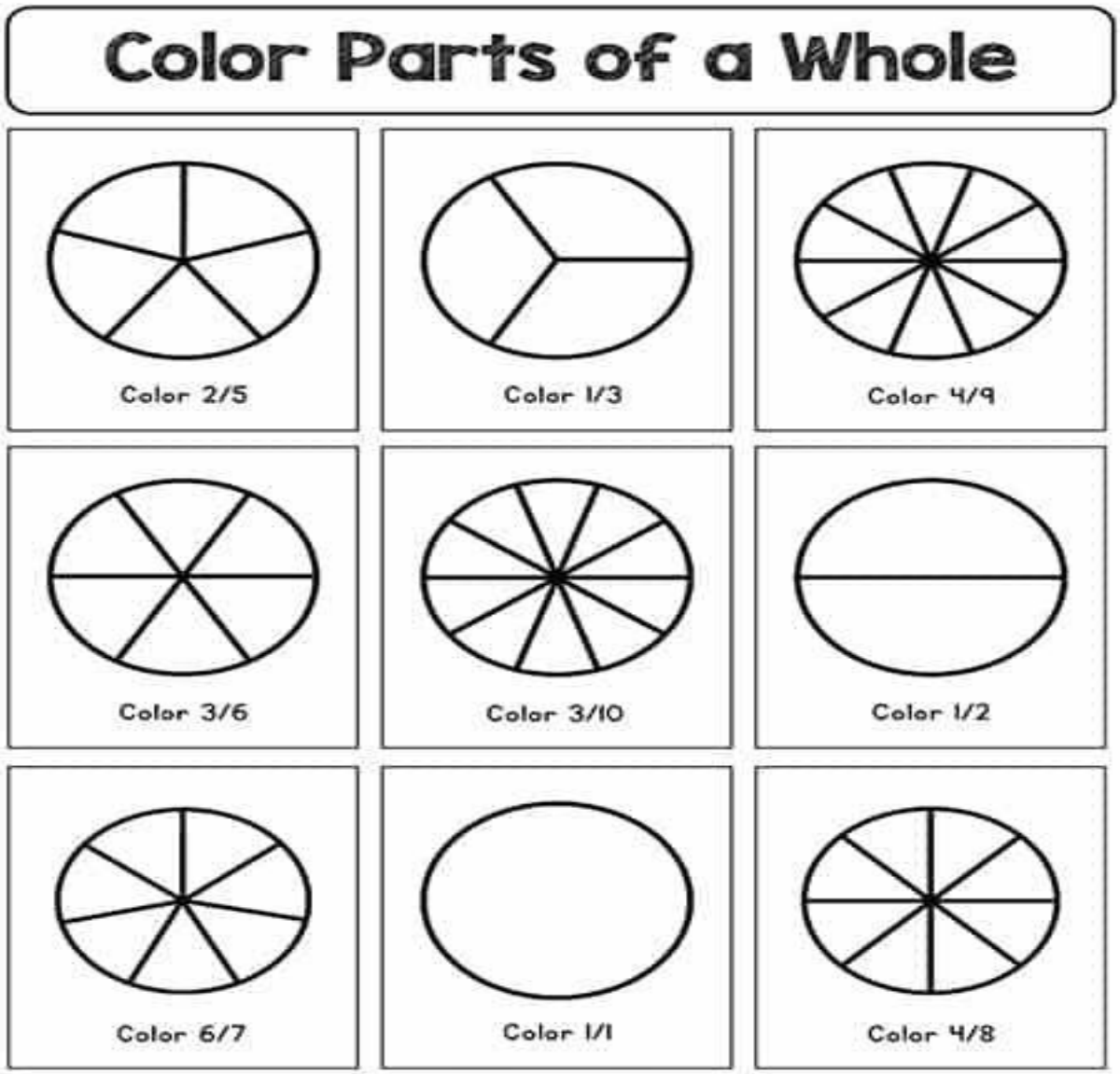
a.  ☐

b.  ✓

c.  ☐

d.  ☐

e.  ☐



SUB TR: HOD: COORDINATOR: PRINCIPAL: