

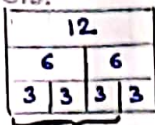
Preactivity – Lets Begin from T.B. (Pg. No. 113)

T.B. Pg. No. 114

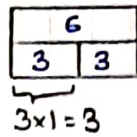
Concrete Stage

Use 'Fraction Tiles' to complete the fraction equation for the following fractions of the sets.

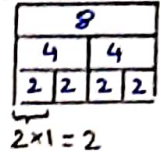
a $\frac{3}{4}$ of 12 = 9



b $\frac{1}{2}$ of 6 = 3



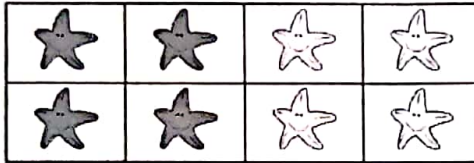
c $\frac{1}{4}$ of 8 = 2



Pictorial Stage

1 Observe the pictures, and shade to calculate the fractions of sets.

a Colour $\frac{1}{2}$ of the star fish.



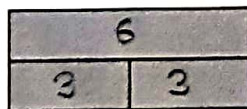
b Colour $\frac{1}{6}$ of the clown fish.



2 Circle $\frac{2}{3}$ of 18 plants. = $\frac{2}{3} \times 18 = 12$



3 In the morning, Tom saw 6 gold fish in a shop. $\frac{1}{2}$ of them were sold by the evening. How many were left?



Gold fish = 6

$$\frac{1}{2} \times 6 = \frac{6}{2} = \frac{1}{2} = 3$$

Abstract Stage

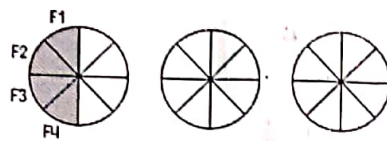
- 1 Anil buys 12 pots for his lawn. One third of them are red. How many of pots are red?

$$\frac{1}{3} \times 12 = \frac{12}{3} = 4$$

Answer: 4

- 2 Four friends share 3 Pizzas. They first eat up half of 1 pizza. How much more pizza slices does each friend need to eat to finish all the Pizza and share them equally? How many slices was each pizza divided in to? Draw a quick picture to solve.

Answer: Each friend needs to eat an additional $\frac{5}{8}$ (five-eighths) of a pizza slice to finish all the pizza and share them equally.



F1 = Share of friend 1

F2 = Share of friend 2

F3 = Share of friend 3

F4 = Share of friend 4

T.B. Pg. No. 117

Concrete Stage

Use 'Fraction Tiles', and solve the following fraction problems.

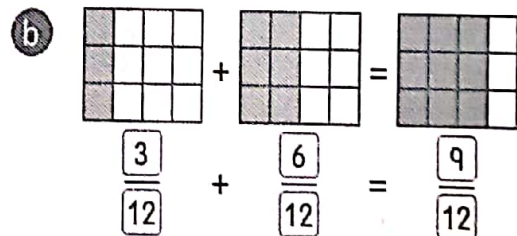
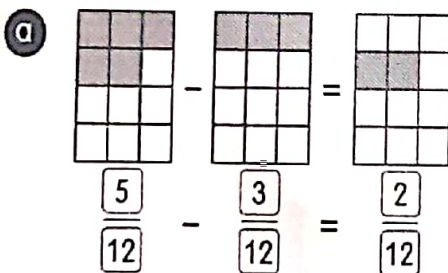
a $\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$

b $\frac{7}{12} - \frac{5}{12} = \frac{2}{12}$

c $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$

Pictorial Stage

- 1 Look at the models, work out the problems by shading the parts of the third model.

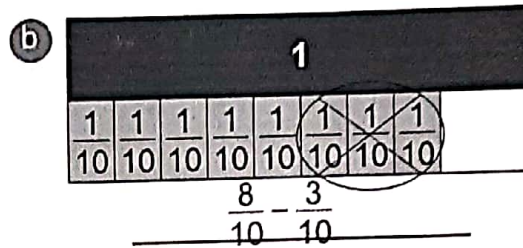
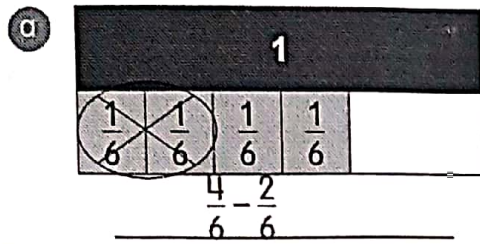


- 2 Draw models to represent the given sums.

a $\frac{4}{8} + \frac{2}{8} = \frac{6}{8}$

b $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

- 3 Work out the following using the given fraction tiles images, and write the number sentences.



Abstract Stage

- 1 Write the fractions as sums of unit fractions.

a $\frac{4}{12} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$

b $\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

c $\frac{3}{9} = \frac{1}{9} + \frac{1}{9} + \frac{1}{9}$

d $\frac{5}{11} = \frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11}$

- 2 Work out the following as stated.

- a Anant ate $\frac{3}{5}$ of a cake during lunch and $\frac{1}{5}$ of the cake in snack. What part of the cake did Anant eat altogether? Work out using a model.

Answer: $\frac{4}{5}$

- b Zen ate $\frac{11}{18}$ of a small pizza and Jack ate $\frac{12}{18}$ of another small pizza. How much more of a pizza did Jack eat?

Answer: $\frac{1}{18}$


Think Aloud

Two trees are $\frac{1}{3}$ of the group. How many trees are in the whole group?

Answer: There are 6 trees in the whole group.

Blooming Questions

- 1 Solve and write the answers. The first one has been done for you.

a $\frac{1}{3}$ of 12  b $\frac{1}{4}$ of 12 = 3

c $\frac{1}{5}$ of 25 = 5

d $\frac{1}{5}$ of 55 = 11

2 There are 36 children in a class. The children named their favourite sports.

- a $\frac{1}{4}$ like soccer = 9 b $\frac{1}{3}$ like tennis = 12 c $\frac{1}{6}$ like swimming = 6 d $\frac{1}{9}$ like basketball = 4

The rest of the children like athletics. How many children like each sport?
= 5

3 Look at the diagram.

a Which colour shows $\frac{1}{2}$ of 40?

Red

b Which colour shows $\frac{1}{5}$ of 40?

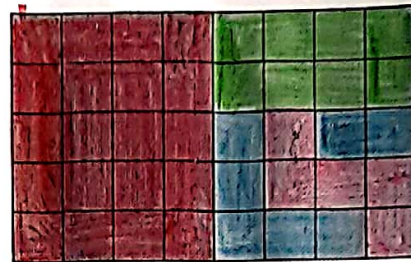
Green

c Which colour shows $\frac{1}{8}$ of 40?

Pink

d What fraction does the remaining colour show?

Blue $\frac{7}{40}$



4 Draw counters. Then circle equal groups to solve.

a $\frac{1}{8}$ of 16. = 2

b $\frac{1}{6}$ of 24. = 4

5 Shejoy took 30 photos at a garden. One-sixth of his photos are only of flowers. How many of photos are of flowers? Answer: 5

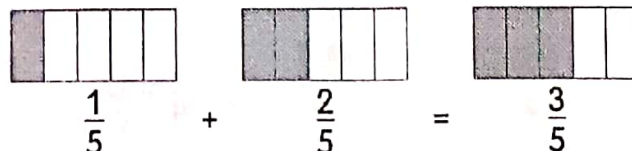
6 An artist is painting the boundary of a nursery. The nursery is $\frac{8}{10}$ km long. The artist painted $\frac{4}{10}$ km of the nursery. Explain how to find what part of the boundary is left to paint.

Answer: $\frac{8}{10} - \frac{4}{10} = \frac{4}{10}$

7 Meenu and Vimal climbed up a rock wall at a park. Meenu climbed $\frac{3}{4}$ of the way up the wall. Vimal climbed $\frac{1}{4}$ of the way up the wall. Who climbed higher and by how much?

Answer: $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$ Meenu climbed higher by $\frac{1}{2}$

8 Uma says $\frac{1}{5} + \frac{2}{5} = \frac{3}{10}$. Draw a model to correct her mistake.



Fill in the boxes with appropriate operation symbols to make these number statements true.

a $\frac{4}{4} \square \frac{2}{4} = \frac{2}{4}$

b $\frac{5}{6} \square \frac{1}{6} = 1$

c $\frac{3}{7} \square \frac{2}{7} = \frac{5}{7}$

d $\frac{2}{11} \square \frac{8}{11} = \frac{10}{11}$

Post activity-

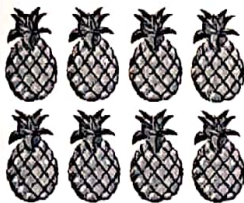
1 Divide the stars into 4 equal groups.



a How many stars are in each group? 2

b What is $\frac{1}{4}$ of 8? 2

2 Divide the pineapples into 2 equal groups.



a How many pineapples are in each group? 4

b What is $\frac{1}{2}$ of 8? 4

3 Divide the flowers into 4 equal groups.

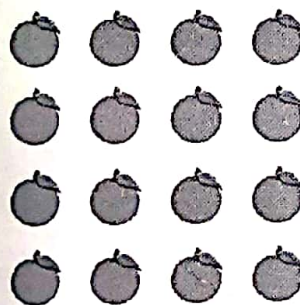


a How many flowers are in each group? 3

b What is $\frac{1}{4}$ of 12? 3

c What is $\frac{1}{2}$ of 12? 6

4 Divide the oranges into 2 equal groups.



a How many oranges are in each group? 8

b What is $\frac{1}{2}$ of 16? 8

c What is $\frac{1}{4}$ of 16? 4

c What is $\frac{1}{8}$ of 16? 2

Rishank
19/7/24
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20/7/24
Co-ordinator

[Signature]
Principal