

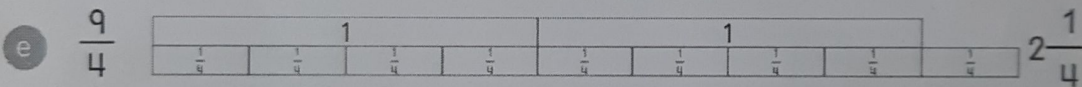
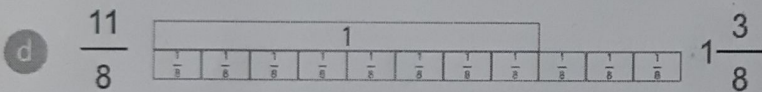
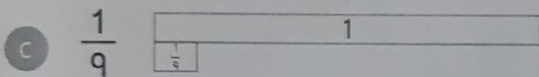
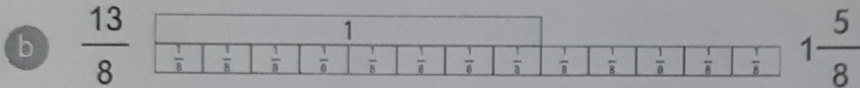
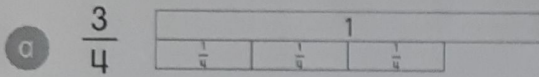


Pre activity – Lets Begin from T.B. (Pg. No. 138)

T.B. Pg. No. 139

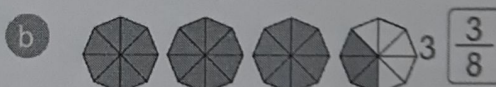
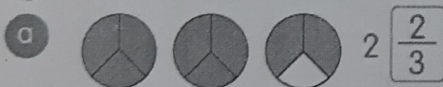
Concrete Stage

Use 'Fraction Tiles', represent the following fractions, and determine the improper fractions as mixed fractions.

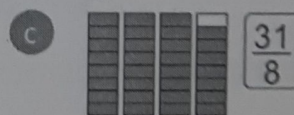
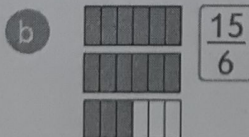
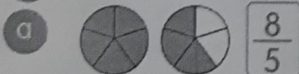


Pictorial Stage

1 Write a mixed fraction for each of the following.



2 Write an improper fraction for each of the following.



T.B. Pg. No. 140

Abstract Stage

Determine if each of the following is a proper fraction, improper fraction, or mixed fraction.



- a  $\frac{8}{3}$  I    b  $\frac{19}{4}$  I    c  $\frac{2}{5}$  P    d  $5\frac{2}{7}$  M    e  $3\frac{5}{9}$  M    f  $\frac{5}{8}$  P

T.B. Pg. No. 142

**Concrete Stage**

1 Use 'Fraction Tiles' to compare the given fractions, and fill in the boxes with < or >.

a  $\frac{6}{7}$    $\frac{5}{7}$

b  $\frac{3}{8}$    $\frac{5}{8}$

c  $\frac{1}{3}$    $\frac{2}{3}$

2 Use 'Fraction Tiles' to arrange these fractions from the least to the greatest.

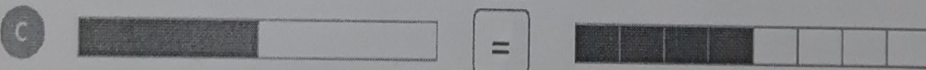
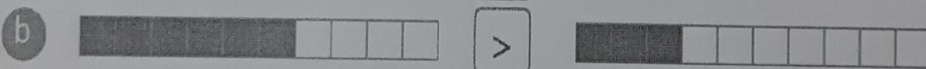
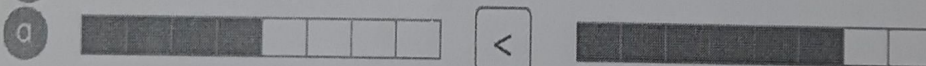
a  $\frac{3}{9}, \frac{3}{6}, \frac{1}{4}$      $\frac{1}{4} < \frac{3}{9} < \frac{3}{6}$

b  $\frac{2}{3}, \frac{3}{6}, \frac{1}{6}$      $\frac{1}{6} < \frac{3}{6} < \frac{2}{3}$

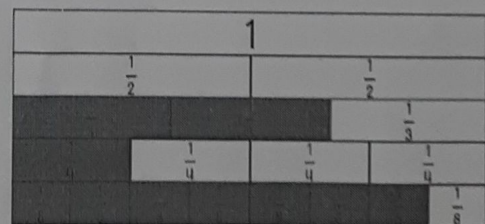
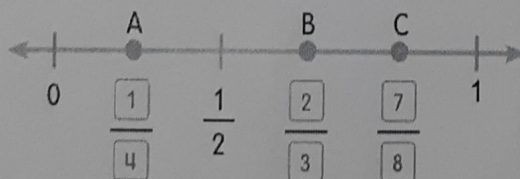
c  $\frac{6}{4}, \frac{3}{2}, \frac{8}{3}$      $\frac{6}{4} = \frac{3}{2} < \frac{8}{3}$

**Pictorial Stage**

1 Compare the given fractions.



2 Colour the fraction tiles to arrange the fractions  $\frac{2}{3}$ ,  $\frac{1}{4}$  and  $\frac{7}{8}$  on the number line.





### Abstract Stage

1 Arrange the following fractions in increasing order.

a  $\frac{2}{6}, \frac{2}{3}, \frac{2}{8}$      $\frac{2}{8} < \frac{2}{6} < \frac{2}{3}$

b  $\frac{4}{5}, \frac{2}{5}, \frac{3}{5}$      $\frac{2}{5} < \frac{3}{5} < \frac{4}{5}$

c  $\frac{3}{5}, \frac{18}{20}, \frac{60}{80}$      $\frac{3}{5} < \frac{60}{80} < \frac{18}{20}$

2 Arrange the following fractions in decreasing order.

a  $\frac{42}{80}, \frac{14}{20}, \frac{3}{5}$      $\frac{14}{20} > \frac{3}{5} > \frac{42}{80}$

b  $\frac{4}{12}, \frac{1}{2}, \frac{4}{6}$      $\frac{4}{6} > \frac{1}{2} > \frac{4}{12}$

c  $\frac{1}{3}, \frac{1}{6}, \frac{1}{5}$      $\frac{1}{3} > \frac{1}{5} > \frac{1}{6}$

T.B. Pg. No. 143

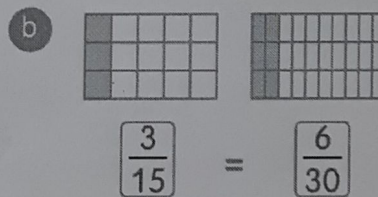
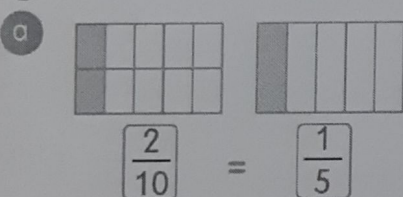
### Concrete Stage

Use 'Fraction Tiles', and circle all the equivalent fractions of  $\frac{1}{4}$ .

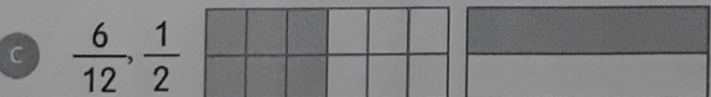
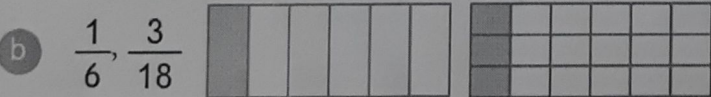
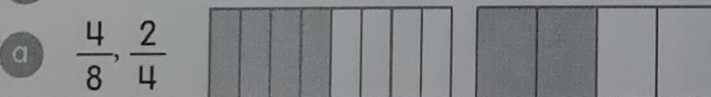
a  $\frac{2}{4}$     b  $\frac{2}{8}$     c  $\frac{4}{6}$     d  $\frac{3}{12}$     e  $\frac{6}{9}$     f  $\frac{8}{10}$     g  $\frac{4}{16}$

### Pictorial Stage

1 Use the bar model representations to write an equivalent fractions.



2 Draw bar models to show these fractions are equivalent.





**Abstract Stage**

1 Find the equivalent fractions by division method.

a  $\frac{20}{24} = \frac{5}{6}$

b  $\frac{42}{48} = \frac{7}{8}$

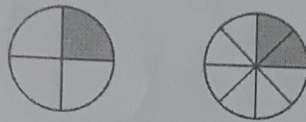
c  $\frac{8}{64} = \frac{1}{8}$

d  $\frac{16}{28} = \frac{4}{7}$

e  $\frac{35}{21} = \frac{5}{3}$

f  $\frac{54}{36} = \frac{3}{2}$

2 Draw models of 2 pizzas with a different number of equal pieces. Use shading to show  $\frac{1}{4}$  of each pizza.



**Blooming Questions**

1 Write a numerator and match the fraction to its type.

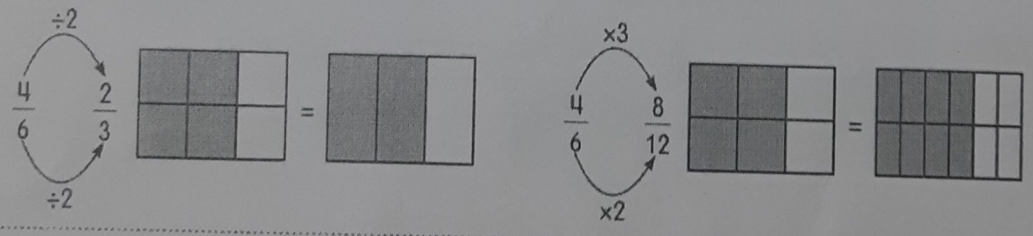
a  $\frac{6}{12}$   Proper fraction  Improper fraction  Mixed fraction  Unit fraction

b  $\frac{1}{5}$

c  $\frac{9}{7}$   Proper fraction  Improper fraction  Mixed fraction  Unit fraction

d  $2\frac{2}{4}$

2 Peter is trying to represent  $\frac{4}{6}$  as  $\frac{2}{3}$  and  $\frac{8}{12}$  but unable to understand when to combine and break the model. Now help him by drawing models of the same.



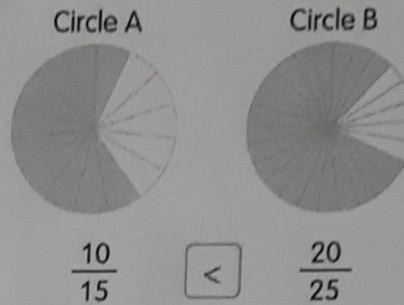


- 3 Leena has two same-size circles divided into equal parts.

Circle A has  $\frac{10}{15}$  of the parts shaded, and

Circle B has  $\frac{20}{25}$  of the parts shaded.

Complete the comparison statement.



- 4 Neeraj says the common denominator for  $\frac{1}{2}$  and  $\frac{2}{3}$  is 5. Is Neeraj right? Explain your answer.

Answer: No. as 5 does not comes in time tables of 2 and 3. So, 5 cannot be its common denominator.

- 5 Andy cut a pizza and a cake into a total of 10 same-size pieces. He cut the pizza into 4 more pieces than the cake. Andy ate 6 pieces of the pizza. What fraction of the pizza did he eat?

**Hintometer:** If he cut the cake into 2 slices, how many slices of the pizza would be there? Add the total slices to see if the sum equals 10. Try cutting the cake in 3 slices.

Answer:  $\frac{3}{7} \leftarrow \frac{6}{14}$

- 6 Circle the fraction with the greatest value.

$\frac{2}{8}, \frac{1}{8}, \frac{2}{4}, \frac{2}{6}$

- 7 Meera's mother gave her a recipe for nut trail mix.

$\frac{3}{4}$  cup cashews,  $\frac{2}{3}$  cup almonds,  $\frac{1}{4}$  cup peanuts, and

$\frac{1}{2}$  cup raisins.



Arrange the ingredients used in the recipe from the least to the greatest.

Answer:  $\frac{1}{4} < \frac{1}{2} < \frac{2}{3} < \frac{3}{4}$

T.B. Pg. No. 146

### Mental Maths

Fill in the boxes with  $>$ ,  $<$  or  $=$  symbols.

a  $\frac{3}{4}$    $\frac{12}{16}$

b  $\frac{6}{15}$    $\frac{1}{3}$

c  $\frac{8}{6}$    $1\frac{1}{3}$

d  $\frac{30}{10}$    $\frac{1}{3}$

e  $\frac{4}{5}$    $\frac{1}{2}$

f  $\frac{56}{49}$    $\frac{8}{7}$

Post activity-

1 Fill in the boxes to make these fractions equivalent.

a  $\frac{2}{5} = \frac{6}{15}$

$\times 3$

$\times 3$

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

$\times 2$

$\times 2$

c  $\frac{1}{2} = \frac{9}{18}$

$\times 9$

$\times 9$

d  $\frac{9}{4} = \frac{36}{16}$

$\times 4$

$\times 4$

e  $\frac{35}{20} = \frac{7}{4}$

$\div 5$

$\div 5$

f  $\frac{30}{48} = \frac{5}{8}$

$\div 6$

$\div 6$

*Riyanka*  
12/7/24  
Subject Teacher

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M.O.D

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12/7/24  
Co-ordinator

Principal