# **Fractions**



#### INTRODUCTION

A fraction is a number which is used to represent a part of a collection or a whole. The fraction  $\frac{1}{3}$ , which means 1 part out of 3 equal parts, can be represented as 1 pencil out of a box of 3 pencils.

A fraction is a:

- · part of a whole
- · part of a collection.

A fraction comprises two numbers separated by a horizontal line. The number above the horizontal line is called the **numerator** and the number below the horizontal line is called the **denominator** of the fraction.

$$\frac{4}{7} = \frac{\text{(Numerator)}}{\text{(Denominator)}}$$

### Fraction as a part of a whole

A fraction is a part of a whole. Imagine a pizza cut into slices. All of the slices make 1 whole pizza. Each slice is a fraction of a pizza.

Tanya and Sanya want to share a pizza equally.

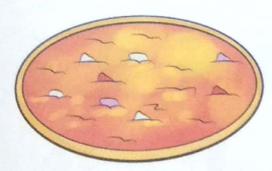


Fig. 6.1

They decide to cut the pizza from the middle and divide it into two equal parts. Each part is called the half of the whole and written as  $\frac{1}{2}$ . Both the sisters get an equal share. The  $\frac{1}{2}$  part of the whole is a fraction.

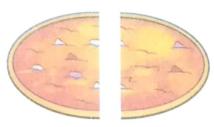


Fig. 6.2

Similarly we can take many examples from our daily lives to show a fraction as a part of a whole.



Fig. 6.3

In this figure, we have divided a triangle into 3 equal parts. The shaded part shows one part out of three—that is,  $\frac{1}{3}$ . Here  $\frac{1}{3}$  is a fraction. It is a part of the whole triangle.

### Fraction as a part of a collection

A fraction represents part of a collection, the numerator represents the number of parts we have and the denominator represents the total number of parts in the collection. Let us take a collection of 12 stars and shade  $\frac{3}{4}$  of the collection.



Fig. 6.4

In order to find  $\frac{3}{4}$  of the 12 stars, we divide the 12 stars into four equal parts.



Fig. 6.5

Each part contains 3 stars. Now we shade 3 parts out of 4 parts.



Fig. 6.6

On counting, we find that the total number of shaded stars is 9.

In other words,  $\frac{3}{4}$  of 12 stars = 9 stars.

# Types of fractions

Like fractions: Fractions with the same denominators are called like fractions.

Examples:  $\frac{1}{7}$ ,  $\frac{3}{7}$ ,  $\frac{2}{7}$ , and  $\frac{6}{7}$  are like fractions.

Unlike fractions: Fractions with different denominators are called unlike fractions.

Examples:  $\frac{2}{3}$ ,  $\frac{5}{7}$ ,  $\frac{6}{8}$ , and  $\frac{1}{3}$  are unlike fractions.

Unit fraction: A fraction with the numerator as 1 is called a unit fraction.

Examples:  $\frac{1}{3}$ ,  $\frac{1}{9}$ ,  $\frac{1}{8}$ , and  $\frac{1}{5}$  are unit fractions.

Proper fraction: A fraction whose numerator is smaller than its denominator is called a proper fraction.

Examples:  $\frac{2}{3}$ ,  $\frac{5}{7}$ ,  $\frac{1}{6}$ , and  $\frac{3}{9}$  are proper fractions.

Improper fraction: A fraction whose numerator is greater than or equal to its denominator is called an improper fraction.

Examples:  $\frac{4}{3}$ ,  $\frac{7}{5}$ , and  $\frac{9}{9}$  are improper fractions.

Mixed fraction: A fraction that is a combination of a whole number and a proper fraction is called a mixed fraction. All improper fractions can be written in the form of mixed fractions.

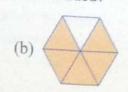
Examples:  $2\frac{1}{4}$  is a mixed fraction, since 2 is a whole number and  $\frac{1}{4}$  is a proper fraction.

# RECAP EXERCISE



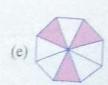
1. What part of the figures are shaded?











- 2. Convert the following improper fractions into mixed fractions:
  - (a)  $\frac{13}{5}$
- (b)  $\frac{23}{13}$
- (c)  $\frac{5}{2}$
- (e)  $\frac{35}{12}$
- 3. Convert the following mixed fractions into improper fractions:
  - (a)  $2\frac{3}{5}$
- (b)  $3\frac{1}{a}$
- (c)  $4\frac{1}{9}$  (d)  $1\frac{2}{5}$
- (e)  $3\frac{3}{5}$

- 4. Circle the proper fractions from the following:

- 5. Write the numerator and denominator of each fraction:
- (b)  $\frac{6}{12}$

- (c)  $\frac{14}{29}$  (d)  $\frac{17}{25}$  (e)  $\frac{23}{20}$
- 6. Express the following as fractions:
  - (a) Two-seventeenths

(b) Four-thirteenths

(c) Sixth-ninths

- (d) Five-eighteenths
- 7. Express the following statements in fractions:
  - (a) take three marbles out of four marbles.
  - (b) eat two chocolates out of seven chocolates.
  - (c) give five pieces of pizza from twelve pieces of pizza.
  - (d) colour six circles out of eight circles.

### EQUIVALENT FRACTIONS

To understand the concept of equivalent fractions, let us take an example—Rama gave her four children a cake each. The first child cut his cake into two equal halves and ate one-half. The second child cut his cake into four equal parts and ate two pieces out of four. The third child cut his cake into six equal parts and ate three of them, and the fourth child cut the cake into eight equal pieces and ate four of them.

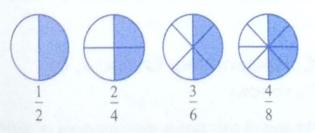


Fig. 6.7

Do you think they have eaten equal parts of the cake?

1st child ate  $\frac{1}{2}$  of the cake.

2nd child ate 
$$\frac{2}{4}$$
 of the cake.  $\left(=\frac{1}{2}$  of the cake  $\right)$ 

3rd child ate 
$$\frac{3}{6}$$
 of the cake.  $\left(=\frac{1}{2}$  of the cake

4th child ate 
$$\frac{4}{8}$$
 of the cake.  $\left(=\frac{1}{2}$  of the cake

This means each child ate  $\frac{1}{2}$  of the cake. Thus, fractions

$$\frac{1}{2}$$
,  $\frac{2}{4}$ ,  $\frac{3}{6}$ , and  $\frac{4}{8}$  represent the same fraction. These are

called equivalent fractions. Thus two or more fractions which represent the same part (value) of the whole are called equivalent fractions.

Sub-maths chapter-Class-6 Page No. -48 Recap Exercise Q.2 Convert the following improper fractions into mined fractions (a)  $\frac{13}{7}$  (b)  $\frac{23}{17}$  (c)  $\frac{5^2}{2}$  (d)  $\frac{31}{19}$  (e)  $\frac{35^2}{19}$ Solution! - (9) 13 = 7 13 = 1 = 9 P = 23 = 11 6 ans ... (c) (d) (e) solve by yourself. Q.3 Convert the following mined practions into improper fractions (9) 2= (b) 3= (c) 4= (d) 1= (e) 3== Solution: (9) 23 1/2019 10 1200 Q= Divisor x Quotient + Remainde

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Hence the given fractions can be written as:

$$\frac{2}{3} = \frac{2 \times 280}{3 \times 280} = \frac{560}{840}$$

$$\frac{4}{5} = \frac{4 \times 168}{5 \times 168} = \frac{672}{840}$$

$$\frac{5}{6} = \frac{5 \times 140}{6 \times 140} = \frac{700}{840}$$

$$\frac{10}{21} = \frac{10 \times 40}{21 \times 40} = \frac{400}{840}$$

$$\frac{15}{40} = \frac{15 \times 21}{40 \times 21} = \frac{315}{840}$$

... The given fraction can be written as:

$$\frac{700}{840} > \frac{672}{840} > \frac{560}{840} > \frac{400}{840} > \frac{315}{840}$$

Descending order is: 
$$\frac{5}{6} > \frac{4}{5} > \frac{2}{3} > \frac{10}{21} > \frac{15}{40}$$



1. Which of the following fractions are equivalent fractions?

(a) 
$$\frac{2}{5}$$
,  $\frac{3}{5}$ 

(b) 
$$\frac{3}{7}$$
,  $\frac{9}{21}$ 

(a) 
$$\frac{2}{5}$$
,  $\frac{3}{5}$  (b)  $\frac{3}{7}$ ,  $\frac{9}{21}$  (c)  $\frac{4}{9}$ ,  $\frac{16}{27}$ 

(d) 
$$\frac{7}{9}$$
,  $\frac{35}{45}$ 

(e) 
$$\frac{1}{2}$$
,  $\frac{1}{3}$ 

(e) 
$$\frac{1}{2}$$
,  $\frac{1}{3}$  (f)  $\frac{8}{10}$ ,  $\frac{24}{30}$ 

2. Write the first five equivalent fractions of the following:

(a) 
$$\frac{9}{11}$$

(b) 
$$\frac{4}{5}$$

(a) 
$$\frac{9}{11}$$
 (b)  $\frac{4}{5}$  (c)  $\frac{5}{13}$ 

(d) 
$$\frac{3}{7}$$

(e) 
$$\frac{2}{9}$$

(e) 
$$\frac{2}{9}$$
 (f)  $\frac{13}{15}$ 

3. Convert the following fractions into their lowest terms (simplest forms):

(a) 
$$\frac{250}{360}$$

(b) 
$$\frac{175}{325}$$

(c) 
$$\frac{220}{750}$$

(a) 
$$\frac{250}{360}$$
 (b)  $\frac{175}{325}$  (c)  $\frac{220}{750}$  (d)  $\frac{820}{1600}$ 

(e) 
$$\frac{57}{76}$$

(e) 
$$\frac{57}{76}$$
 (f)  $\frac{22}{121}$ 

4. Fill in the blanks:

(a) 
$$\frac{2}{\Box} = \frac{32}{48} = \frac{30}{\Box}$$

(b) 
$$\frac{3}{5} = \frac{24}{10} = \frac{1}{60}$$

5. Compare the following using >, <, or =:

(a) 
$$\frac{2}{5} \Box \frac{1}{7}$$

(a) 
$$\frac{2}{5} \square \frac{1}{7}$$
 (b)  $\frac{5}{11} \square \frac{4}{13}$ 

(c) 
$$\frac{7}{14} \Box \frac{1}{2}$$

(c) 
$$\frac{7}{14} \square \frac{1}{2}$$
 (d)  $\frac{3}{18} \square \frac{3}{9}$ 

6. Arrange the following fractions in ascending order:

$$\frac{1}{3}$$
,  $\frac{2}{5}$ ,  $\frac{4}{15}$ ,  $\frac{3}{10}$ ,  $\frac{5}{20}$ ,  $\frac{6}{21}$ 

7. Arrange the following fractions in descending order:

$$2, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{9}{10}$$

8. A builder uses  $\frac{2}{5}$  of available land for roads and parks,  $\frac{3}{8}$  for the community hall, and rest in construct of apartments. Which of these gets the maximum portion of the land?

- 9. In an examination,  $\frac{5}{12}$  of the total marks were allotted to maths,  $\frac{3}{12}$  to literature, and rest to physical education and arts. Arrange the given subjects in increasing order of their allotments.
- 10. Sunita reads  $\frac{3}{5}$  of a book on the first day and  $\frac{1}{3}$  on the second day. On which day did she read more?

## **OPERATIONS ON FRACTIONS**

Now we will learn how to add and subtract fractions.

# Addition and subtraction of like fractions

For adding and subtracting like fractions, we follow these steps:

- Step 1: Add or subtract the numerators. The denominator of the sum or difference will be same as of the two fractions.
- Step 2: Reduce the fraction to its lowest term.
- Step 3: If the result is an improper fraction, convert it into a mixed fraction.

$$\frac{\text{Addition or subtraction}}{\text{of fractions}} = \frac{\text{Sum or difference of the numerators}}{\text{Common denominator}}$$

Example 6: Find the sum of:

(a) 
$$\frac{3}{13} + \frac{9}{13} + \frac{2}{13}$$
 (b)  $3\frac{2}{5} + 7\frac{3}{5}$ 

**Solution:** (a) 
$$\frac{3}{13} + \frac{9}{13} + \frac{2}{13} = \frac{3+9+2}{13} = \frac{14}{13} = 1\frac{1}{13}$$

(b) 
$$3\frac{2}{5} + 7\frac{3}{5} = \frac{17}{5} + \frac{38}{5} = \frac{17+38}{5} = \frac{55}{5} = 11$$

Example 7: Subtract: 
$$\frac{12}{15} - \frac{13}{25}$$

Solution: LCM of 15 and 25 = 75

$$\frac{12}{15} = \frac{12 \times 5}{15 \times 5} = \frac{60}{75}$$

$$\frac{13}{25} = \frac{13 \times 3}{25 \times 3} = \frac{39}{75}$$

$$\therefore \frac{12}{15} - \frac{13}{25} = \frac{60}{75} - \frac{39}{75} = \frac{21}{75} = \frac{7}{25}$$

# Addition and subtraction of unlike fractions

For adding or subtracting unlike fractions, we follow these steps:

- Step 1: Find the LCM of denominators of the given fractions.
- Step 2: Convert unlike fractions into like fractions by making LCM as their denominator.
- Step 3: Add or subtract the like fractions.

**Example 8:** Add: 
$$4\frac{1}{2}$$
 and  $3\frac{1}{6}$ .

Solution: Convert into improper fraction:

$$4\frac{1}{2} + 3\frac{1}{6} = \frac{9}{2} + \frac{19}{6} = \frac{27 + 19}{6} = \frac{46}{6} = \frac{23}{3} = 7\frac{2}{3}$$

Alternative method:

1. Add 4 and 3—that is, 4 + 3 = 7

2. 
$$\frac{1}{2} + \frac{1}{6} = \frac{3+1}{6} = \frac{4}{6} = \frac{2}{3}$$

3. 
$$4\frac{1}{2} + 3\frac{1}{6} = 7\left(\frac{1}{2} + \frac{1}{6}\right) = 7\frac{2}{3}$$

**Example 9:** Add: 
$$3\frac{1}{2}$$
,  $5\frac{2}{3}$ , and  $1\frac{2}{6}$ .

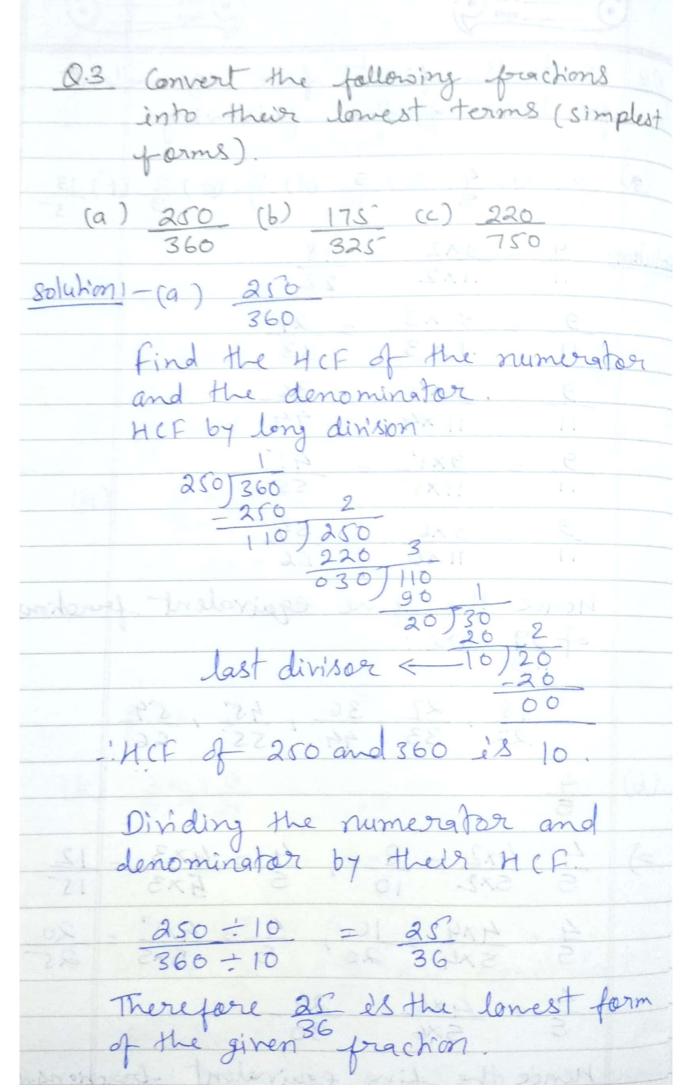
**Solution:** 
$$3\frac{1}{2} + 5\frac{2}{3} + 1\frac{2}{6} = \frac{7}{2} + \frac{17}{3} + \frac{8}{6}$$

(Convert mixed fractions to improper fractions)

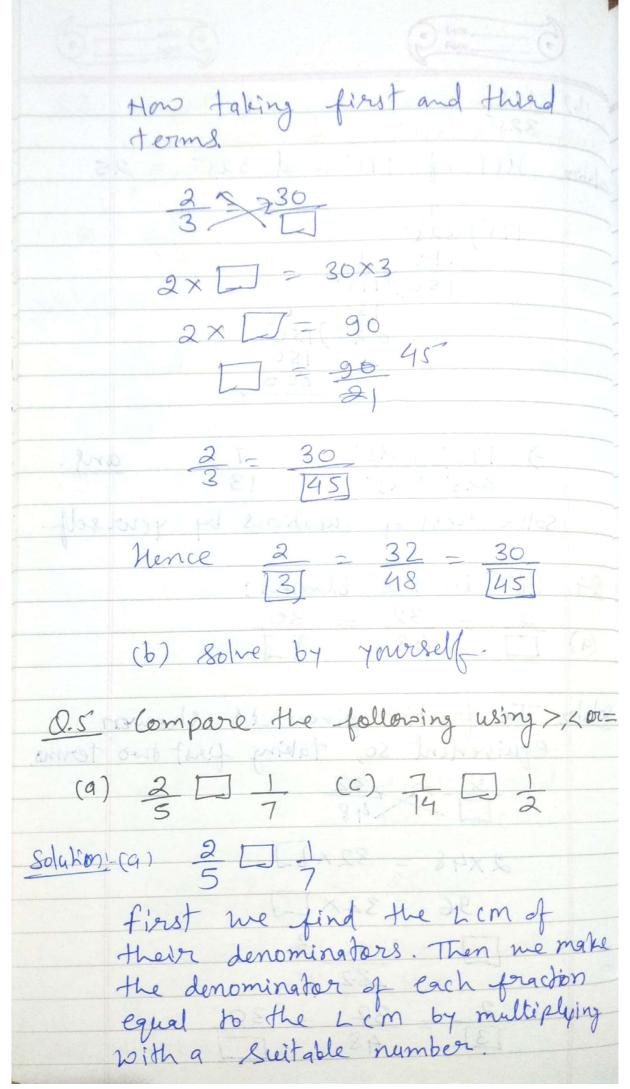
$$= \frac{7 \times 3}{2 \times 3} + \frac{17 \times 2}{3 \times 2} + \frac{8}{6}$$
 (LCM of 2, 3, and 6 = 6)

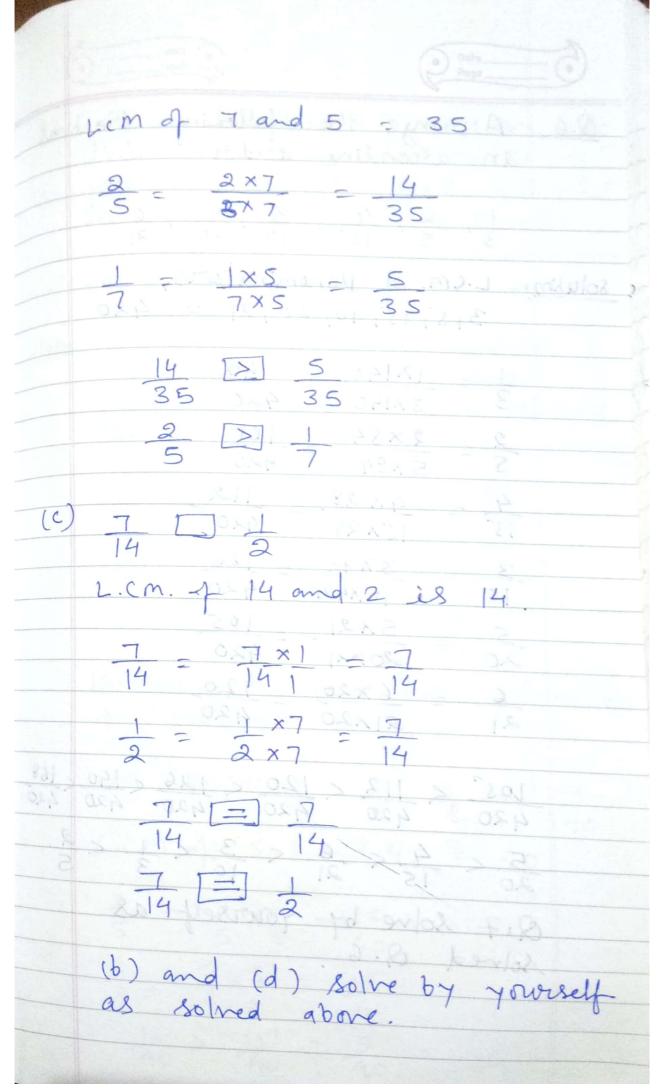
EX-6.1 Clets-6 PageNO- 52 Q-1 which of the following fractions of are equivalent fractions? (a) 2, 3 (b) 3, 9 (c) 4, 16 5, 5 (b) 3, 9 (c) 4, 16 Solution: - Note: - for fraction 9 and c Off and = bxc then 9 = c 1 If and & bac then g & c (9)  $\frac{2}{5}$   $\frac{73}{5}$ = 2x5 = 3x5= 10 \ \ \ 15 Hence 2 and 3 are not equipment fractions. (b) 3579 =) 3x21 = 9x7=) 63 = 63 Hence 3 and 2 are equivalent foractions solve rest of questions by yourself as solved above.

10 2 write the first fire equivalent fractions of the following:  (a) 9 (b) $\frac{4}{5}$ (c) $\frac{5}{13}$ (d) $\frac{3}{7}$ (e) $\frac{2}{3}$ (f) $\frac{13}{15}$ solution: $9 = \frac{9 \times 2}{11 \times 2} = \frac{18}{22}$ $9 = \frac{9 \times 3}{11 \times 3} = \frac{27}{33}$ $9 = \frac{9 \times 4}{11 \times 4} = \frac{36}{44}$ $11 = \frac{11 \times 4}{11 \times 5} = \frac{45}{55}$ $9 = \frac{9 \times 6}{11 \times 6} = \frac{54}{66}$ Hence the fire equivalent fractions of $9 = \frac{3}{11}$ are:  18 $\frac{27}{33} = \frac{36}{44} = \frac{45}{55} = \frac{59}{5}$ (b) $\frac{4}{5}$ $\frac{1}{5} = \frac{4 \times 2}{5 \times 2} = \frac{8}{10} = \frac{4 \times 3}{5 \times 5} = \frac{12}{5 \times 5}$ $\frac{4}{5} = \frac{4 \times 4}{5 \times 6} = \frac{24}{30} = \frac{4 \times 5}{5 \times 6} = \frac{24}{30}$			Date O
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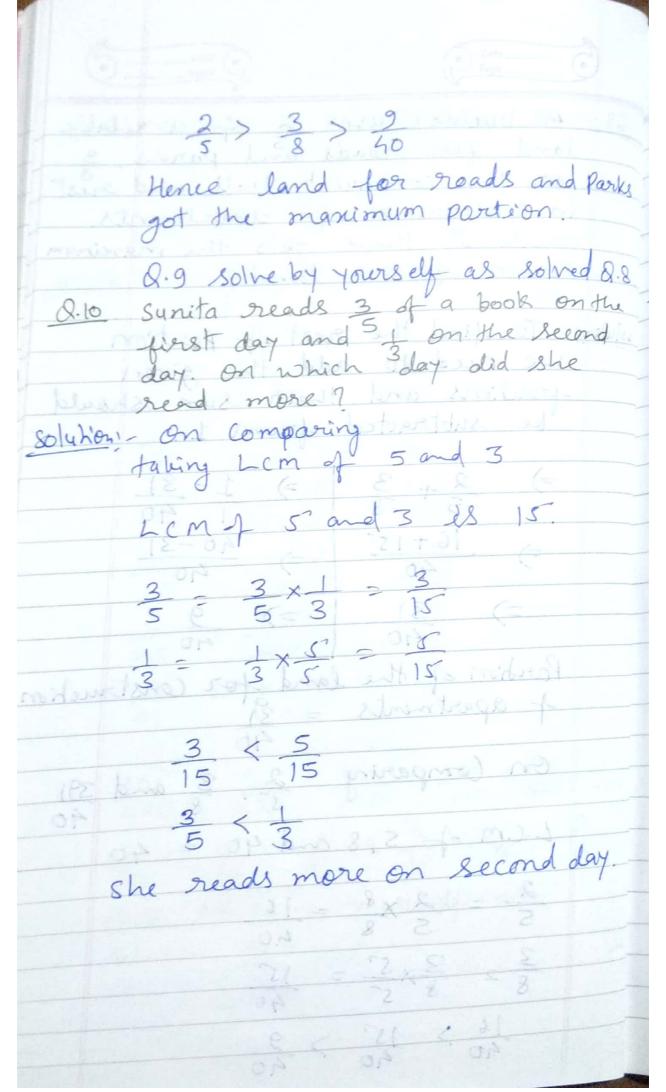
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(b) <u>175?</u> 325
solution HCF of 175 and 325 = 25
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-175 -150 6
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000
$=$ $\frac{175 \div 25^{\circ}}{325 \div 25} = \frac{7}{13}$ and.
solve rest of questions by yourself.
Q4 Fill in the blanks:
(a) $\frac{2}{\Box} = \frac{32}{48} = \frac{36}{\Box}$
Solution The fraction given its shown.  Equiverlent so, taking first two terms  2 x 232
2 732 1 48
2×48 = 32×1
16.196 732× []
= 36 3 mg/ = 10 mg/ =
32 130 131 - 32 - 130 131 - 48 - 100
Sannad by Coms





0.6	Arrange the following fractions in ascending order:  1, 2, 4, 3, 5, 6 3, 5, 15, 10, 20, 21
solukon	2:- L.cm. of Denominators, 3,5,15,10,20,21 = 420
	$\frac{1}{3} = \frac{1 \times 140}{3 \times 140} = \frac{140}{420}$ $\frac{2}{5} = \frac{2 \times 84}{5 \times 84} = \frac{168}{420}$
	$\frac{4}{15} = \frac{4 \times 28}{15 \times 28} = \frac{112}{420}$
	$\frac{3}{10} = \frac{3 \times 42}{10 \times 420} = \frac{126}{420}$ $\frac{5}{20} = \frac{5 \times 21}{20 \times 21} = \frac{105}{20 \times 420}$
	$\frac{6}{21} = \frac{16 \times 26}{21 \times 20} = \frac{120}{420}$
(6)	$\frac{105^{2}}{420} < \frac{112}{420} < \frac{120}{420} < \frac{126}{420} < \frac{140}{420} < \frac{168}{420}$ $\frac{5}{20} < \frac{4}{15} < \frac{6}{21} < \frac{3}{10} < \frac{1}{3} < \frac{2}{5}$
,	Q.7 solve by yourself as solved Q.6.
	Not to salog (p) pour to

In door reads and parks 3 in construction of apartments.  portion of these gets the maximum  south. To find the rest of portion  ne need to add the giren  fractions and their sum should  be subtracted from 1  3 3 3 1 40  16+15 3 40  Portion of the land for construction  on comparing 2, 3 and 9  L.C.m of 5,8 and 40 = 40  2 - 2 x8 - 16  5 - 5 8 ho  3 3 + 5 - 15	
which of these gets the maximum  Portion of the land?  To find the rest of portion  we need to add the given  practions and their sum should  be subtracted from 1  31 3 3 1 40  16+15 3 40 31  40 3 40  Portion of the land for construction  of apartments = 9  40  On Compariny 2, 3 and 9  5 8 40  L.C.M of 5,8 and 40 = 40	a A builder uses
which of these gets the maximum  portion of the land?  To find the rest of portion  we need to add the given  practions and their sum should  be subtracted from 1  31 3 3 1 40  16+15 3 40 31  40 3 40  Portion of the land for construction  of apartments = 9  40  On Compariny 2, 3 and 9  5 8 40  L.C.M of 5,8 and 40 = 40	land for roads 5 of available
which of these gets the maximum  portion of the land?  To find the rest of portion  we need to add the given  practions and their sum should  be subtracted from 1  31 3 3 1 40  16+15 3 40 31  40 3 40  Portion of the land for construction  of apartments = 9  40  On Compariny 2, 3 and 9  5 8 40  L.C.M of 5,8 and 40 = 40	for the community hall and 3
practions and the rest of portion  fractions and their sum should  be subtracted from 1  =) 2 + 3 => 1-31  5 8   1 40  =) 16+15' => 40-31  40   20  Portion of the land for construction  on compariny 2 , 3 and 9  L.C.m of 5,8 and 40 = 40  2 - 2 x8 = 16  5 5 8 40	which of these apartments.
practions and the rest of portion  fractions and their sum should  be subtracted from 1  =) 2 + 3 => 1-31  5 8   1 40  =) 16+15' => 40-31  40   20  Portion of the land for construction  on compariny 2 , 3 and 9  L.C.m of 5,8 and 40 = 40  2 - 2 x8 = 16  5 5 8 40	portion of the land? The maximum
practions and their sum should be subtracted from 1  =) 2 + 3 => 1-31  => 1	To Ind H
be subtracted from 1  =) 2 + 3 => 1 - 31  => 16 + 15 => 40 - 31  => 40 => 40  Portion of the land for construction  => 40  Portion of the land for construction  => 40  On Comparing 2, 3 and 9  5, 8 and 40 = 40  2 - 2 x 8 = 16  5 - 5 8 40	we need to add it partion
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	practions and their sum should
=) 2 + 3 =) 1-31 5 + 8   1 + 40 16 + 15'   40 - 31 40   70   40 Portion of the land for construction 4 apartments = 9 40 On Comparing 2, 3 and 9 5, 8 and 40 = 40 2 - 2 × 8 = 16 5 - 5 8 40	Trong Iva
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
2) 31 => 9 40  Portion of the land for construction on comparing 2, 3 and 9 5, 8 and 40 = 40  2 - 2 x 8 = 16 5 5 8 40	5 8 2 1 49
2) 31 => 9 40 40 Portion of the land for construction 4 apartments = 9 40 On Comparing 2, 3 and 9 5, 8 and 40 = 40 2 - 2 x 8 = 16 5 5 8 40	$=$ $\frac{16+15}{40}$ $=$ $\frac{40-31}{40}$
Portion of the land for construction  4 apartments = 9  On Comparing 2, 3 and 9  L.C.M of 5,8 and 40 = 40  2 - 2 x8 = 16  5 5 8 40	
On Comparing $\frac{12}{5}$ , $\frac{3}{8}$ and $\frac{19}{40}$ L.C.M. of $5$ , $8$ and $40 = 40$ $\frac{2}{5} - \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$	40 40
On Comparing $\frac{12}{5}$ , $\frac{3}{8}$ and $\frac{19}{40}$ L.C.M. of $5$ , $8$ and $40 = 40$ $\frac{2}{5} - \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$	Portion of the land for construction
L-c.m of 5,8 and 40 = 40 $\frac{2}{5} = \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$	of aparaments = 40
L-c.m of 5,8 and 40 = 40 $\frac{2}{5} = \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$	On Comparing 212, 3 and 19
$\frac{2}{5} - \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$	
	L-C.M of 5,8 and 40 = 40
	2 - 2 x8 = 16
3 3 - 5 - 15	
82 8 5 40	$\frac{3}{82} \frac{3}{8} \times \frac{57}{5} = \frac{15}{40}$
16 > 15 > 9	40 40 40



$$= \frac{21}{6} + \frac{34}{6} + \frac{8}{6}$$
$$= \frac{21 + 34 + 8}{6} = \frac{63}{6} = 10\frac{1}{2}$$

**Example 10:** Subtract: (a)  $3\frac{1}{2}$  from  $4\frac{3}{4}$  (b)  $8-2\frac{5}{12}$ 

**Solution:** (a)  $4\frac{3}{4} - 3\frac{1}{2} = \frac{19}{4} - \frac{7}{2} = \frac{19 - 14}{4} = \frac{5}{4} = 1\frac{1}{4}$ 

(b) 
$$8 - 2\frac{5}{12} = 8 - \frac{29}{12} = \frac{96 - 29}{12} = \frac{67}{12} = 5\frac{7}{12}$$

Example 11: Subtract  $14\frac{1}{3}$  from the sum of  $10\frac{2}{5}$ 

and  $4\frac{2}{3}$ .

**Solution:** Add  $10\frac{2}{5} + 4\frac{2}{3}$ .

$$= \frac{52}{5} + \frac{14}{3}$$
 (converting mixed fraction into improper fraction)
$$= \frac{52 \times 3}{5 \times 3} + \frac{14 \times 5}{3 \times 5}$$
 (LCM of 3 and 5 and 5

According to the question, we get,

$$\frac{226}{15} - 14\frac{1}{3}$$

$$= \frac{226}{15} - \frac{43}{3}$$

$$= \frac{226 - 215}{15}$$

$$= \frac{11}{15}$$
 (LCM of 15 and 3 = 1)



In how many ways can  $\frac{7}{12}$  be written as a sum of two fractions in the lowest terms, given that the denominators of the two

fractions are different and each is not more than 12? What are these different ways?



### 1. Add the following numbers:

- (a)  $8\frac{3}{8} + 3\frac{3}{8} + 2\frac{3}{8} + \frac{3}{8}$  (b)  $9\frac{7}{8} + 7\frac{5}{24} + 2\frac{1}{16} + 1\frac{3}{4}$  (c)  $5\frac{3}{5} + 2\frac{2}{10} + 3\frac{1}{15} + 4\frac{3}{25}$
- (d)  $\frac{5}{8} + 3 + 2 \frac{5}{36} + 1 \frac{3}{24}$

### 2. Subtract the following fractions:

(a)  $12 - \frac{3}{5}$ 

(b)  $\frac{13}{36} - \frac{5}{24}$ 

(c)  $3\frac{5}{6} - 1\frac{4}{9}$ 

- (d)  $2\frac{7}{11} 1\frac{5}{33}$
- (e)  $11\frac{1}{9} 5\frac{5}{8}$

(f)  $12-4\frac{3}{25}-1\frac{4}{15}$ 

- 3. Simplify the following:

  - (a)  $3\frac{1}{2} 1\frac{1}{3} + 5\frac{1}{4}$  (b)  $2\frac{3}{4} + 3\frac{2}{3} 5\frac{1}{6}$

(c)  $1 - \frac{1}{4} + \frac{2}{3}$ 

- (d)  $5\frac{2}{3} 2\frac{1}{3} 1\frac{2}{5}$
- (e)  $3\frac{1}{2} 1 + \frac{2}{5}$

- (f)  $2\frac{3}{4} 11\frac{1}{8} + 9\frac{1}{2}$
- 4. Subtract the sum of  $13\frac{1}{2}$  and  $6\frac{2}{3}$  from the sum of  $15\frac{1}{2}$  and  $6\frac{3}{4}$ .
- 5. What should be added to  $12\frac{3}{5}$  to get 20?
- 6. What should be subtracted from  $20\frac{3}{4}$  to get  $10\frac{1}{2}$ ?
- 7. Rohit spent  $\frac{2}{5}$  of his pocket money on a science fiction book,  $\frac{1}{6}$  on a newspaper, and  $\frac{2}{15}$  on recreation. What fraction of his pocket money is left?
- 8. Jaya travels  $\frac{3}{7}$  of his journey by car,  $\frac{4}{21}$  by cycling, and rest on foot. What fraction of his journey was covered on foot?
- 9. In a boarding school,  $\frac{2}{3}$  of children are in primary section,  $\frac{3}{10}$  are in middle section, and rest are in secondary section. What fraction of children is in secondary section?
- 10. In a garden,  $\frac{1}{5}$  of the land is used for flowers,  $\frac{2}{7}$  for jogging track, and rest as open land. What fraction is used as open land?

# Points to Remember

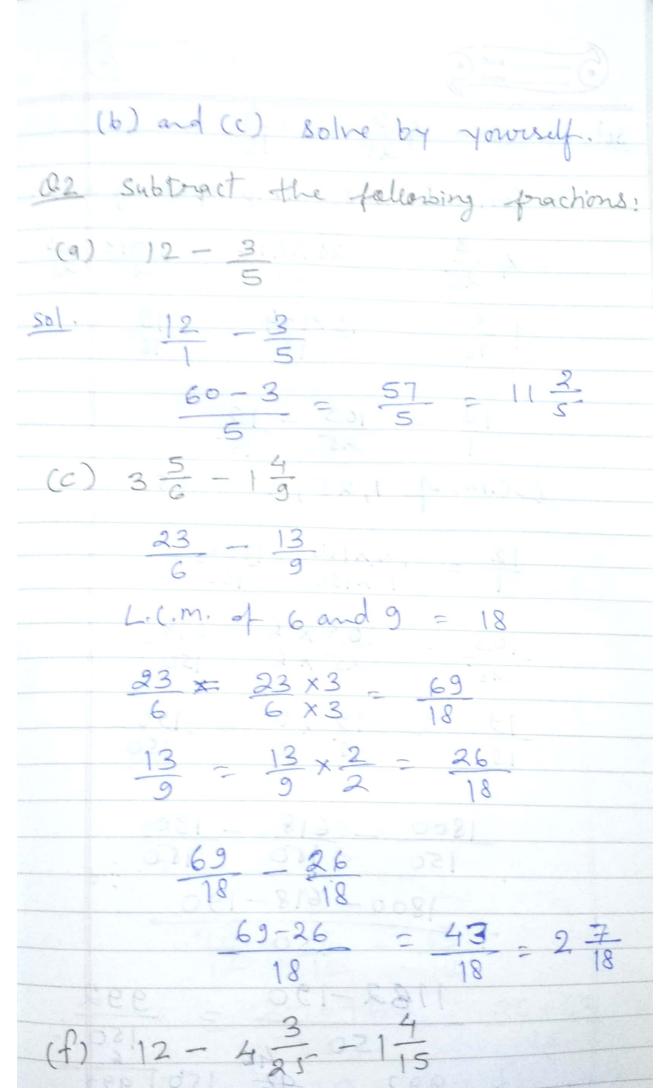


- A fraction is in the simplest form when the HCF of the numerator and denominator is 1.
- Two or more fractions are said to be equivalent fractions if they represent the same value.
- Fractions which have the same denominators are called like fractions.
- When two fractions which have the same denominators are compared, the fraction with the greater numerator will be the greater fraction.
- When two fractions which have the same numerators are compared, the fraction with the greater denominator will be the smaller fraction.
- Two fractions which have different numerators and denominators are compared by making the same denominator.

PyeNO. 54 Ex 6.2 Class-6
OI Add the following numbers:
(a) $8\frac{3}{8} + 3\frac{3}{8} + 2\frac{3}{8} + \frac{3}{8}$
solution Convert into impressor 1 1
$8\frac{3}{8} = 8\times8+3 = \frac{64+3}{8} = \frac{67}{8}$
3 = 8 × 3 + 3 = 24 + 3 = 27
$2\frac{3}{8} + 8 \times 2 + 3 = 16 + 3 = 19$
249 - 45
$=\frac{67}{8}+\frac{27}{8}+\frac{19}{8}+\frac{3}{8}$
= 67+27+19+3
= 116
8 -81
14 4 - 32
$=$ $14\frac{1}{2}$ ans.
$ (d) \frac{5}{8} + 3 + 2 \frac{5}{36} + 1 \frac{3}{24} $
6-24

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Solution: $\frac{5}{8} + 3 + 2 = \frac{5}{36} + 1 = \frac{3}{24}$ Convert into like fraction.
$2\frac{5}{36} = \frac{36 \times 2 + 5}{36} = \frac{72 + 5}{36} = \frac{77}{36}$ $\frac{3}{36} = \frac{24 \times 1 + 3}{24} = \frac{27}{24}$
$\frac{5}{8} + \frac{3}{1} + \frac{77}{36} + \frac{27}{24}$ $\frac{1}{2} + \frac{1}{36} + \frac{3}{36} + \frac{27}{24}$ $\frac{1}{2} + \frac{1}{36} + \frac{3}{36} + \frac{3}{24} = 72$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{24}{72} = \frac{24}{72} \times \frac{31}{72} + 31$
$=) \frac{496}{72} \qquad 72 \qquad 72$ $=) \frac{496}{72} \qquad 727496$ $= 6 \frac{64}{72} \qquad 9$
$=6\frac{3}{9}\frac{9}{9}$ ans.



Sol.	12- 4/25	16215	
	Convert in	to impro	per fraction
	4 = = =		
	1 -15 -	15×1+4	15.
	12	103 - 19	, ',
	L. C.m 1	,25,15 =	150
	$\frac{12}{1} = \frac{12}{1}$	×150 -180	
	103 =	103 × 6 =	150
	19 81	19 × 10 =	190
	1800	- 618 -	190
B	150	0-1618-1	90
81	118	2-190	_ 992
	$=$ $\frac{995}{150}$	150 46 2 26 <del>150</del> 6 200 75	150 150 1992 -900 -92
			Scanned by CamS

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	(S) Parts
0.3	Simplify the following:
	13/2 + 13/1 + 5/2 braves instales
80).	Convert l'endo like fraction.
	3 d 1 3×2 H 2 = 7
	13 3 3x1+12x1- 4.8
	54 = 475+1 = 121
	2 = 24 m 529 for M.D.J
	L.cm. 7 2,3,4 = 12.8
	$\frac{7}{2} = \frac{27}{2} \times \frac{6}{6} = \frac{242}{12}$
	$\frac{4}{3} = \frac{24}{3} \times \frac{4}{5} = \frac{16}{12}$
	$\frac{21}{4} = \frac{21}{4} \times \frac{3}{3} = \frac{63}{12}$
	18-28-28
	12 12 12 12 42-16+63
	200 - 21 12 - 20 12 - 21 89 21 7 5 and
	sony no startens by your

6 - 5	
$(d) 5\frac{2}{3} - 2\frac{1}{3} - 1\frac{2}{5}$	
solution: - Convert into like fraction	1.
$5\frac{2}{3} = 5 \times 3 + 2 = 15 + 2 = 17$	- 12
$2\frac{1}{3} - \frac{2\times3+1}{3} = \frac{6+1}{3} = \frac{7}{3}$	
$\frac{12}{5} = \frac{1}{5} \times \frac{5}{5} = \frac{7}{5}$	
=) 17 - 7 2 7 =) 3 3 5	
L.C.M of 3,3 and 5 = 15	
$\frac{17}{3} = \frac{17 \times 5}{3 \times 5} = \frac{85}{5}$	
$\frac{7}{3} = \frac{7 \times 5}{3 \times 5} = \frac{35}{3 \times 5}$	
$\frac{7}{5} = \frac{7 \times 3}{5 \times 3} = \frac{21}{15}$	
=) 85   35   21	
85-35-21	
ED 15, DI RP	
50-21-150-2N	
$=)$ $\frac{29}{15} = 1\frac{14}{15}$ and	
Solve rest of questions by yours	ef.

24	subtract the sum of 13 & and
	63 from the sum of 151 and 63.
Solution	
	$   \begin{vmatrix}     13 \frac{1}{2} & -1 &   &   &   &   &   &   &   &   &   & $
	8 mon adding = 12.753
	L.Cm. of 2 and 3 7 6
	$\frac{27 \times 3}{2 \times 3} = \frac{81}{6}$ $\frac{20 \times 2}{3 \times 2} = \frac{40 \times 8}{6}$
	$= \frac{811.5}{6.1} + \frac{40.0121}{6.15} = \frac{81140}{6.15} = \frac{121}{6}$
	Again find the sum of 15t and
	$6\frac{3}{4}$ $15\frac{1}{2} = \frac{15\times2+1}{2} = \frac{30+1}{2} = \frac{31}{2}$
	$6\frac{3}{4} = \frac{6x4+3}{4} = \frac{24+3}{4} = \frac{27}{4}$

On adding	
=> 31 + 27 4	
L cm of 2 and 4 = 4	
21 21 21 62	
2 2 2 2 4 5 MUZ	moly
27 = 27 x1 = 27 41 28 4 7 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x	
08 =) 8+862 + 27 E 4 E 3	
$\frac{62+27}{4} = \frac{8.9}{4}$	
Now subtract (1) from (2)	
=) 2 89 E 121 S fMD	J
L.C.m. of 4 and 6 = 6.4218	
$\frac{89}{4} = \frac{89 \times 3}{4 \times 3} = \frac{267.5 \times 0.5}{12.5 \times 8}$	
151 -121 -12 121 x2 - 2420 5 6 5 6 x 2 5 12	
267-242 267-2 267-242 267-2 267-2	42
$\frac{25}{12} = 2\frac{1}{12}$ And	
15 = 15 × 2+1 = 30 11 = 31 = 31	

Should be added to $12\frac{3}{5}$ to get $20\frac{9}{5}$ . What should be added to $12\frac{3}{5}$ to $2\frac{3}{5}$ to $2\frac{3}{5}$ . We should add $7\frac{2}{5}$ to $12\frac{3}{5}$ . We should add $7\frac{2}{5}$ to $12\frac{3}{5}$ . We should add $7\frac{2}{5}$ to $12\frac{3}{5}$ .	
She Let the unknown number be $x$ .  According to question $12\frac{3}{5} + x = 20$ $12\frac{3}{5} + x = 20$ $12\frac{3}{5} = 12x5+3 = 60+3 = 63$ $12\frac{3}{5} + x = 20$	Page [ C)
She Let the unknown number be $x$ .  According to question $12\frac{3}{5} + x = 20$ $12\frac{3}{5} + x = 20$ $12\frac{3}{5} = 12x5+3 = 60+3 = 63$ $12\frac{3}{5} + x = 20$	0.5 What should be added to 12 3 to
12 $\frac{3}{5} + x = 20$ H Convert into improper fraction.  2	get 20 1
12 $\frac{3}{5} + x = 20$ H Convert into improper fraction.  2	Lat the under
12 $\frac{3}{5} + x = 20$ H Convert into improper fraction.  12 $\frac{3}{5} + x = 20$ 2 $\frac{63}{5} + x = 20$ 3 $\frac{63}{5} + x = 20$ 2 $\frac{63}{5} + x = 20$ 3 $\frac{7}{5} + \frac{7}{5} = \frac$	Sol. According to a sold number be x
12 $\frac{3}{5} + x = 20$ H Convert into improper fraction.  12 $\frac{3}{5} + x = 20$ 2 $\frac{63}{5} + x = 20$ 3 $\frac{63}{5} + x = 20$ 2 $\frac{63}{5} + x = 20$ 3 $\frac{7}{5} + \frac{7}{5} = \frac$	g or question
Convert into improper fraction.  12 3 = $12x5+3 = 60+3 = 63$ 2 $63 + x = 20$ 2 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 4 $100 - 63$ 5 $100 - 63$ 6 $100 - 63$ 7 $100 - 63$ 8 $100 - 63$ 9 $100 - 63$ 10 $100 - 63$ 10 $100 - 63$ 10 $100 - 63$ 11 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 4 $100 - 63$ 5 $100 - 63$ 6 $100 - 63$ 7 $100 - 63$ 7 $100 - 63$ 9 $100 - 63$ 2 $100 - 63$ 2 $100 - 63$ 3 $100 - 63$ 3 $100 - 63$ 4 $100 - 63$ 5 $100 - 63$ 6 $100 - 63$ 7 $100 - 63$ 8 $100 - 63$ 9 $100 - 63$ 9 $100 - 63$ 10 $100 - 63$ 1	$12\frac{3}{1} + 2 = 20$
$\frac{63}{5} + x = 20$ $\frac{63}{5} + x = 20$ $\frac{63}{5} + x = 20$ $\frac{100 - 63}{5}$ $\frac{1}{5} = \frac{37}{5} = \frac{7}{5} = \frac{2}{7}$ $\frac{37}{5} = \frac{7}{5} = \frac{2}{7}$ $\frac{37}{5} = \frac{37}{5} = \frac{37}{5} = \frac{37}{5}$ $\frac{37}{5} = \frac{37}{5} = \frac{37}{5} = \frac{37}{5} = \frac{37}{5}$ $\frac{37}{5} = \frac{37}{5} = 3$	Her Her perom att beit To
$\frac{63}{5} + x = 20$ $\frac{63}{5} + x = 20$ $\frac{63}{5} + x = 20$ $\frac{100 - 63}{5}$ $\frac{1}{5} = \frac{37}{5} = \frac{7}{5} = \frac{2}{7}$ $\frac{37}{5} = \frac{7}{5} = \frac{2}{7}$ $\frac{37}{5} = \frac{37}{5} = $	Convert into improper de la
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 3 12 12 12 12 12 12 12 12 12 12 12 12 12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
= 20 - 63 $= 100 - 63$ $= 37 - 75 = 75$ $= 75 - 75 = 75$ $= 30 - 63$ $= 37 - 75 = 75$ $=$	
= 20 - 63 $= 100 - 63$ $= 37 = 75 = 75$ $= 37 = 75 = 7$	$\frac{5}{5} + \chi = \frac{20}{1}$
=) $x = 100 - 63$ =) $x = 37$ => $x = 37$ => $x = 37$ => $x = 75$	24
$= \frac{100-63}{5}$ $= \frac{37}{5} = \frac{2}{75}$ $= \frac{37}{5} = \frac{37}{5}$ $= \frac{37}{5} $	
Die solve by yourself as solved  Q. 5.	100 (2)
Die solve by yourself as solved  Q. 5.	The second for the second second
Die solve by yourself as solved  Q. 5.	37 - 2 2
Die solve by yourself as solved  Q. 5.	5 - 75 = 75
Q. 5. Solve by yourself as solved	ans.
Q. 5. Solve by yourself as solved	to should add 7 = to 123-
Q. 5. Solve by yourself as solved	de de domo de la mont
25 - 5×7 - 7	
25 - 5×7 - 7	Q. 5 Yourself as solved
	08, 550
OE 5251 30	
	05 5×31 30

1 6±			
0.7 R	ohit spent 2 5	of his pool science fic	cet
bc . >< <u>2</u>	on a specers of left ?	eation, wh	et
. minh	To find the im we need were fraction	money left do to add	elge
fre	m 1.	63 . 30	
	spent on bo	= )(	
He.	spent of Reco	realion = 2	5.
2 7 = 3	37 = 7	7 1	7
	al money he		
L(n	1 of 8,6 a	~	orb
5	= 2 ×6 5 × 6	= 12	10 L
6	= 1x5°	= 57	
2 15	$= \frac{2}{15} \times \frac{2}{2}$	- 2 4 36	

return to => 12 + 30 + 4 12+5+4 Now Lets subtract from 1. <u>4</u> - 21 21-5.0 .102 3 of his pocket money is left neith him. Q.8,9 and 10 are same as Q.7 so do them by yourself