

**MATHS NOTES: PARTS AND WHOLE**

1. **Fraction** : Fraction is nothing but a part of whole . for example  $\frac{5}{8}$  in this 5 is known as numerator and 8 is known as denominator .

2. Type of fraction

a) Proper fraction : Numerator < Denominator means when denominator is big from numerator . for example  $\frac{3}{4}$

b) Improper fraction : Denominator < Numerator means Numerator when is big from Denominator . for example  $\frac{9}{5}$

c) Mixed fraction : It has whole number and proper fraction. For example  $4\frac{2}{6}$  here 4= whole number and  $\frac{2}{6}$  is proper fraction.

**Question - Answer**

1. Find the Answer of the following:

a)  $\frac{1}{2}$  of 30 =  $\frac{1}{2} \times 30 = \frac{30}{2} = 15$

b)  $\frac{1}{5} \times 10 = \frac{10}{5} = 2$

c)  $\frac{2}{5} \times 80 = \frac{160}{5} = 32$

2. Manju had a chocolate . She divided these into 3 friends . Find how many Chocolate did each get

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a) She gave  $\frac{1}{4}$  of it to raju?

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

b) She gave  $\frac{1}{6}$  of it to Sheela

Ans:  $\frac{1}{6} \times 12 = \frac{12}{6} = 2$

3. Draw and colour 15 flowers . colour  $\frac{1}{3}$  of it red and  $\frac{3}{5}$  of it yellow?

Ans :  $\frac{1}{3} \times 15 = \frac{15}{3} = 5$  flowers red and  $\frac{3}{5} \times 15 = \frac{45}{5} = 9$  flowers yellow.

4. Ramu's field has a equal part

|         |        |         |
|---------|--------|---------|
| Chilly  | Potato | Brinjal |
| Brinjal | Tomato | Spinach |
| Tomato  | Potato | Tomato  |

a)What vegetables does he grow?

Ans : Chilly , Potato , Brinjal , Tomato and spinach

b)Which vegetable grow in the biggest part of his field? What part?

Ans: Tomato and part is  $\frac{3}{9}$

c)Write Spanish and Brinjal part

Ans: Spanish :  $\frac{1}{9}$  and Brinjal =  $\frac{2}{9}$

5.Ramu has 20 tomatoes and 18 potatoes with him. He gave  $\frac{1}{5}$  of tomatoes and  $\frac{1}{3}$  of potatoes to aman and he gave  $\frac{2}{5}$  of tomatoes and  $\frac{3}{6}$  of potatoes to surbhi. Nancy got rest of these vegetables .How many potatoes and tomatoes did nancy get?

Ans : Aman :

Tomatoes :  $\frac{1}{5} \times 20 = \frac{20}{5} = 4$  and potatoes :  $\frac{1}{3} \times 18 = \frac{18}{3} = 6$

• Surbhi :

Tomatoes :  $\frac{2}{5} \times 20 = \frac{40}{5} = 8$  and potatoes :  $\frac{3}{6} \times 18 = \frac{54}{6} = 9$

• Nancy got :  $20-12=8$  tomatoes and  $18-15=3$  potatoes

6.Write any 5 equivalent fraction of the following

a) $\frac{2}{3}$

Ans:  $\frac{2 \times 2}{3 \times 2}$  ,  $\frac{2 \times 3}{3 \times 3}$  ,  $\frac{2 \times 4}{3 \times 4}$  ,  $\frac{2 \times 5}{3 \times 5}$  ,  $\frac{2 \times 6}{3 \times 6}$

: $\frac{4}{6}$  ,  $\frac{6}{9}$  ,  $\frac{8}{12}$  ,  $\frac{10}{15}$  ,  $\frac{12}{18}$

7. Write the missing number

a)  $\frac{4}{6} = \frac{\quad}{24}$     b)  $\frac{3}{8} = \frac{\quad}{40}$     c)  $\frac{\quad}{4} = \frac{6}{12}$

Ans: a)  $\frac{4}{6} = \frac{16}{24}$     b)  $\frac{3}{8} = \frac{15}{40}$     c)  $\frac{2}{4} = \frac{6}{12}$

8. Varhini's Time table: 1 day = 24 hours

|          |         |
|----------|---------|
| Eating   | 2 hours |
| Playing  | 4 hours |
| Studying | 6 hours |
| Sleeping | 8 hours |

a) What part of the day she use for study?

Ans :  $\frac{6}{24} = \frac{1}{4}$

b) What part of the day she use for playing?

Ans :  $\frac{4}{24} = \frac{1}{6}$

c) What part of day she use for sleeping?

Ans :  $\frac{8}{24} = \frac{1}{3}$

d) What part of the day she use for other activity?

Ans :  $2+4+6+8=20$  hours

$24-20=4$  hours left for another activity  $\frac{4}{24} = \frac{1}{6}$

9. Ramu's vegetables shop:

| Item   | Price per kg |
|--------|--------------|
| Tomato | Rs. 80       |
| Potato | Rs. 50       |
| Onion  | Rs .100      |
| Carrot | Rs. 40       |

a) How much 2kg of tomato cost?

Ans :  $80 \times 2 = 160$

b) How much  $\frac{1}{2}$  kg of potato?

Ans :  $\frac{1}{2} \times 50 = \frac{50}{2} = 25$

c) What is the price of  $5\frac{1}{4}$  kg of carrot?

Ans : Cost of 5kg of carrot =  $40 \times 5 = \text{Rs. } 200$

Cost of  $\frac{1}{4}$  kg of carrot =  $\frac{1}{4} \times 40 = \frac{40}{4} = 10$

Cost of  $5\frac{1}{4}$  kg of carrot =  $200 + 10 = 210$