

Tender Heart High School - Sec 55Bk.

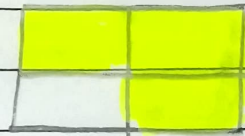
Class: VII

Deepthi Bala

Subject: Mathematics

Topic: Chapter-2 : Fractions

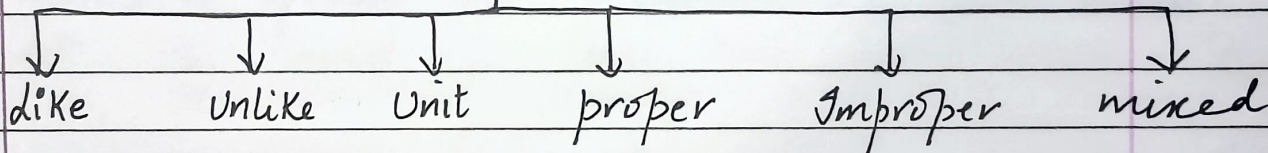
Fraction is a part of whole out of 4 parts of a whole, 3 are shaded.



Fraction of shaded part = $\frac{3}{4}$

Fraction of unshaded part = $\frac{1}{4}$ → Numerator
→ Denominator

Types of fractions



1. like fraction: Fractions having same denominators are called like fractions.

eg $\frac{2}{5}, \frac{6}{5}, \frac{18}{5}, \frac{6}{5}$

2. Unlike fraction: Fractions having different denominators are called unlike fractions e.g $\frac{6}{8}, \frac{2}{9}, \frac{6}{7}, \frac{8}{13}$

3. Unit fraction: Fractions having numerator 1. for eg: $\frac{1}{2}, \frac{1}{18}, \frac{1}{20}$

4. proper fraction: Fraction in which numerator is smaller than denominator
 $\frac{6}{7}, \frac{8}{9}, \frac{13}{24} \dots$

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5. Improper fraction: In this Numerator is greater than denominator.

for eg: $\frac{12}{8}$, $\frac{16}{3}$, $\frac{23}{5}$...

6. Mixed fraction: It has two parts i.e. Natural number and a proper fraction

for eg: $2\frac{1}{4}$, $3\frac{2}{3}$...

Natural no. Proper fraction

Rules to find the product of fractions:

Let $\frac{a}{b}$ and $\frac{c}{d}$ are two fractions, to

find the product of two fractions will be given as $\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d}$ → Product of Numerators
→ Product of denominators

Rules to find the quotient of fractions:

Let $\frac{a}{b}$ and $\frac{c}{d}$ are two fractions, to

find the quotient we will reciprocal the 2nd fraction

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \left(\frac{d}{c} \right) \rightarrow \text{reciprocal of 2nd fraction}$$

Now multiply the numerators and denominators

$$= \frac{a \times d}{b \times c}$$

Exercise - 2A



class : VII

Subject: Mathematics

Teacher: Dimple

Topic: Chapter-2 Fractions

2A

$$1. \quad \frac{5}{6} \times \frac{3}{7} = \frac{5}{\cancel{2} \times 6} \times \frac{\cancel{3}^1}{7} = \frac{5}{14}$$

$$3. \quad \frac{28}{8} \times \frac{7}{1} = \frac{\cancel{28}^7 \times 7}{1 \times \cancel{8}_2} = \frac{49}{2} = 24\frac{1}{2}$$

$$9. \quad \frac{1}{19} \times \frac{91}{13} \times \frac{5}{1} = \frac{1}{19} \times \frac{91}{1} \times \frac{76}{13}$$

$$= \frac{1 \times \cancel{91}^7 \times 76}{1 \times 19 \times 1 \times \cancel{13}_1} = \frac{28}{1} = 28$$

Soln-14. The cost of 1m cloth is = ₹ 715 $\frac{1}{4}$.

The cost of $3\frac{2}{5}$ m cloth is = ₹ 715 $\frac{1}{4}$ × $3\frac{2}{5}$

$$= \frac{2861}{4} \times \frac{17}{5}$$

$$= \frac{48637}{20}$$

$$= ₹ 2431\frac{17}{20}$$

