


# TOPIC: UNITARY METHOD


**Unitary Method**  
with example sums



Cost of many  $\div$  Cost of One

Cost of One  $\times$  Cost of many



**Unitary Ratio Definition**



5 ice creams = Rs 125  
3 ice creams = Rs ?

Ques:- Cost of 4 books  = \$ 120  
Cost of 3 books  = ?

**Unitary method**

Ans:-  = \$ 120  
 =  $120 \div 4 = \$30$   
 =  $30 \times 3 = \$90$



# C.W#14 TOPIC: UNITARY METHOD

## Unitary method

\*Finding the value of one unit and then using it to find the value of the required number of units is known as Unitary Method.

\*The Unitary method focuses on the “UNIT” which means one.

Steps of Unitary Method:

# 1<sup>st</sup> : Find the total cost/total value and total unit from the first line of the question.

#2<sup>nd</sup> : To find out one unit cost :  $\frac{\text{total value}}{\text{total unit}}$  ( which we get from the first line)

#3<sup>rd</sup> : Required unit cost : one unit cost X required unit

**PG# 30, EX-2.13**

**Q.1) The price of 12 exercise books are tk 72. Find the cost of 18 exercise books.**

**12 exercise books cost = 72 Tk.**

**So, 1 exercise book cost =  $(72 \div 12)$  tk.  
= 6 tk**

**So, 18 exercise books cost =  $(6 \times 18)$  Tk  
= 108 Tk.**

**Ans: 18 exercise books cost 108 Tk.**

3. 12 m cloths cost = 480 Tk.

$$\begin{aligned} 1 \text{ m cloth cost} &= (480 \div 12) \text{ tk.} \\ &= 40 \text{ tk} \end{aligned}$$

$$\begin{aligned} 8 \text{ m cloths cost} &= (40 \times 8) \text{ Tk} \\ &= 320 \text{ Tk.} \end{aligned}$$

Ans: 8 m cloths cost 320 Tk.

$$\begin{aligned} 5) 1 \text{ person's train fare} &= (1122 \div 6) \text{ tk.} \\ &= 187 \text{ Tk.} \end{aligned}$$

$$\begin{aligned} 10 \text{ person's train fare} &= (187 \times 10) \text{ Tk} \\ &= 1870 \text{ Tk.} \end{aligned}$$

Ans: 10 person's train fair 1870 Tk.

**H.W#8,EX-2.13,Q(2,4)**

## C.W#15 TOPIC: UNITARY METHOD

6) 12 kg of potatoes cost = 84 Tk.

1 kg of potato cost =  $(84 \div 12)$  tk.  
= 7 Tk.

5 kg of potatoes cost =  $(7 \times 5)$  Tk  
= 35 Tk.

Ans: 5 kg potatoes cost 35 Tk.

7) 1 year = 12 months

The rent of 12 months = 18,000 Tk

The rent of 1 month =  $(18,000 \div 12)$  Tk.  
= 1500 Tk.

The rent of 8 months =  $(1,500 \times 8)$  Tk.  
= 12,000 Tk.

Ans: The rent of 8 months is 12,000 Tk.

9) Bindu reads 125 pages in 5 hours

$$\text{Bindu reads 1 page} = \frac{5}{125} \text{ hours}$$

$$\begin{aligned}\text{Bindu reads 275 pages} &= \frac{5 \times 275}{125} \text{ hours} \\ &= 11 \text{ hours}\end{aligned}$$

Ans: Bindu reads 275 pages in 11 hours.

10) In 6 days Raju painted = 51 m

$$\text{In 1 day Raju painted} = \frac{51}{6} \text{ m}$$

$$\begin{aligned}\text{In 4 days Raju painted} &= \frac{51 \times 4}{6} \text{ m} \\ &= 34 \text{ m}\end{aligned}$$

Ans: He painted 34 m.

H.W#9. Ex-2.13, Q(8,13,14)

