

Teacher — Children, yesterday I bought one dozen of bananas for ₹ 60. If I have to buy 7 bananas, how many rupees will be spent?

To find the cost of 7 bananas first we find the cost of 1 banana.

Rekha tell me, what will be the cost of 1 banana ?

Rekha — ₹ $60 \div 12 = 5$

The cost of one banana will be ₹ 5.

Teacher — Very good! Parveen, now you tell me, if the cost of one banana is ₹ 5, what will be the cost of 7 bananas ?

Parveen — ₹ $5 \times 7 = ₹ 35$

The cost of 7 bananas will be ₹ 35.

Teacher — Well done!

We have observed that —

Here, first we calculated the cost of one object and with its help we calculated the cost of many objects. This method is called **Unitary Method**.

Here, 'Unitary' means- based on unit (one).



Example 1 : The cost of 4 kg of rice is ₹ 68. Find the cost of 9 kg of rice.

Solution : Cost of 4 kg of rice = ₹ 68
 Cost on 1 kg of rice = ₹ $\frac{68}{4}$ = ₹ 17

Hence, the cost of 9 kg of rice = ₹ 17 × 9
 = ₹ 153

Hence, the cost of 9 kg of rice is ₹ 153

Example 2 : Sanjay goes from his house to his sister's house in 2 hours by cycle. If he goes to his aunt's house from his sister's house at the same speed, how much time will he take to reach, whereas –

- (a) The distance from Sanjay's house to his sister's house = 24 km
 (b) The distance from Sanjay's sister's house to his aunt's house = 26 km

Solution : Time taken to cover a distance of 24 km = 2 hrs
 Time taken to cover a distance of 1 km = $\frac{2}{24}$ hrs
 Hence, time taken to cover a distance of 26 km = $\frac{2}{24} \times 26$
 = $\frac{26}{12}$ hrs
 = $\frac{13}{6}$ hrs
 = $2 \frac{1}{6}$ hrs



1 hour = 60 minutes

$\frac{1}{6}$ hour = $\frac{60}{6} \times \frac{1}{6}$ minutes
 = 10 minutes

Hence, $2 \frac{1}{6}$ hours = 2 hours 10 minutes

Hence, Sanjay will reach from his sister's house to his aunt's house in 2 hours 10 minutes.



Exercise



₹

%



1. The cost of 12 notebooks is ₹ 162. What will be the cost of one notebook ?
2. The cost of 5 bags is ₹ 475. Find the value of 8 such bags ?
3. A train covers a distance of 300 km in 6 hours. How much time will the train take to cover a distance of 500 km at the same speed.
4. In a family 15 kg of wheat is sufficient for 20 days. How many kilograms of wheat will be required by the same family for 30 days ?
5. 3 hectares of field is irrigated in 36 hours by a tubewell. In how many hours 12 hectares of the field will be irrigated by the same tubewell ?
6. If ₹ 115.50 are required to send 3 registered letters, how many rupees will be required to send 9 such registered letters?
7. In a grocery shop 2 kg of rice is sold for ₹ 34. What will be the cost of 5 kg of rice? Put the correct sign (✓) on the correct answer—



(a) ₹ 68

(b) ₹ 85

(c) ₹ 170

(d) None of these

