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Tender Heart High School, Sec-33B, Chandigarh

Subject - Mathematics
Class - IV

Date - 16.12.20
Teacher - Ms. Sushma

Chapter - 12
Money

Unitary Method:→

Unit means '1'.

The method of finding the value of one unit from the value of given number of units first and then finding the value of the required number of units is known as the unitary method.

The unitary method involves two steps:→

Step 1 → Find the value of one unit. To do so, divide the total value by the given no. of units.

Step 2 → Find the value of required no. of units. To do so, multiply the value of one unit by the required no. of units.

Exercise 12.4

Solve these story sums.

Q 1. The cost of 10 pencils is ₹270. What will be the cost of 4 pencils?

Soln:→ The cost of 10 pencils = ₹270

The cost of 1 pencil = ₹270 ÷ 10

= ₹27

The cost of 4 pencils = ₹27 × 4

= ₹108

2. Meera wants to buy 7 packets of pasta. Find the amount she has to pay if 9 packets cost ₹279.

Soln:→ Cost of 9 packets = ₹279
Cost of 1 packet = ₹279 ÷ 9
= ₹31
Cost of 7 packets = ₹31 × 7
= ₹217

$$\begin{array}{r} 31 \\ 9\overline{)279} \\ -27\downarrow \\ \hline 09 \\ -9 \\ \hline 0 \end{array}$$

3. A dozen Alphonso mangoes cost ₹360. What amount will be paid for 20 mangoes?

Soln:→ Cost of 12 (1 dozen) mangoes = ₹360
Cost of 1 mango = ₹360 ÷ 12
= ₹30
Cost of 20 mangoes = ₹30 × 20
= ₹600

4. 36 copies of a book cost ₹1872. Find the cost of 45 copies of the book.

Soln:→ Cost of 36 copies of a book = ₹1872
Cost of 1 copy of a book = ₹1872 ÷ 36
= ₹52
Cost of 45 copies of a book = ₹52 × 45
= ₹2340

$$\begin{array}{r} 52 \\ 36\overline{)1872} \\ -180\downarrow \\ \hline 72 \\ -72 \\ \hline x \end{array}$$

$$\begin{array}{r} 52 \\ \times\ 45 \\ \hline 260 \\ 208\ x \\ \hline 2340 \end{array}$$

5. A bus can go up to 48 km on 4 litres of diesel. How far will the bus go on 8 litres of diesel?

Soln:→ Distance covered in 4 L of diesel = 48 km
" " " 1 L " " = 48 ÷ 4
= 12 km
" " " 8 L " " = 12 × 8
= 96 km

6. A dozen jars contain 3000 toffees. How many toffees will be there in 60 such jars?

Soln:→ No. of toffees contained in 12 jars = 3000 toffees
" " " " " 1 jar = 3000 ÷ 12
= 250
" " " " " 60 jars = 250 × 60
= 15000 toffees

12) 3000 (250
-24↓
60
-60↓
00
0

250
× 60
000
1500 ×
15000

7. A machine can make 12 plastic bowls in a minute. How long will the machine take to make 9600 bowls?

Soln:→ Time taken to 12 plastic bowls = 1 min = 60 sec
" " " 1 plastic bowl = 60 ÷ 12
= 5 sec
" " " 9600 " " = 5 × 9600
= 48000 sec
= 48000 ÷ 60
= 800 min
= 800 ÷ 60
= 13 h 20 min

12) 60 (5
-60
0

60) 48000 (800
-480↓
00
-0↓
00
-0
0

60) 800 (13
-60↓
200
-180
20