

Math Grade 5 : Exercise 2B

1. Decide whether there is profit or loss in each of these products with the help of a model.

a. Channapatna toys from Karnataka.

Cost Price = Rs 305 , Selling Price = Rs 340

here,  $CP < SP$

$$\text{Profit} = SP - CP = 340 - 305 = 35$$

hence, Profit = Rs 35

b. Coir mat from kerala.

Cost Price = Rs 275

Selling Price = Rs 255

here,  $CP > SP$

$$\text{Loss} = CP - SP = 275 - 255 = 20$$

hence Loss = Rs 20

c. Kolhapuri chappals from Maharashtra.

Cost Price = Rs 428

Selling Price = Rs 410

here,  $CP > SP$

$$\text{Loss} = \text{CP} - \text{SP} = 428 - 410 = 18$$

hence Loss = Rs18

d. Hand loom Saree from Odisha.

Cost Price = Rs 1680

Selling Price = Rs 2390

here,  $\text{CP} < \text{SP}$

$$\text{Profit} = \text{SP} - \text{CP} = 2390 - 1680 = 710$$

hence Profit = Rs 710

2. Find out the profit or loss in each of these. You may use models if you wish.

Cost Price

Selling Price

Profit/Loss

Amount

a

Rs 2,090

Rs 2,100

$\text{CP} < \text{SP} = \text{Profit}$

$$\text{Rs } 2,090 - \text{Rs } 2,100 = \text{Rs } 10$$

b

$$\text{Rs } 8,395$$

$$\text{Rs } 8,935$$

$$\text{CP} < \text{SP} = \text{Profit}$$

$$\text{Rs } 8,935 - \text{Rs } 8,395 = \text{Rs } 540$$

c

$$\text{Rs } 14,060$$

$$\text{Rs } 14,600$$

$$\text{CP} < \text{SP} = \text{Profit}$$

$$\text{Rs } 14,600 - \text{Rs } 14,060 = \text{Rs } 540$$

d

$$\text{Rs } 9,319$$

$$\text{Rs } 9,139$$

$$\text{CP} > \text{SP} = \text{Loss}$$

$$\text{Rs } 9,319 - \text{Rs } 9,139 = \text{Rs } 180$$

e

$$\text{Rs } 11,190$$

$$\text{Rs } 11,865$$

$$\text{CP} < \text{SP} = \text{Profit}$$

$$\text{Rs } 11,865 - \text{Rs } 11,190 = \text{Rs } 675$$

3. First find the final cost of each item. Then calculate profit or loss using models if you wish.

Cost Price

Overheads

Final cost

(CP + Overheads)

Selling Price

Profit/Loss Amount

a

Rs 645

Rs 80

Rs 645 + Rs 80 = Rs 725

Rs 800

Profit = Rs 800 - Rs 725 = Rs

b

Rs 909

Rs 162

Rs 909 + Rs 162 = Rs 1,071

Rs 1,235

Profit = Rs164

c

Rs 2,100

Rs 395

Rs 2,100 + Rs 395 = Rs 2,495

Rs 2,300

Loss = Rs 195

d

Rs 7,213

Rs 520

Rs 7,213 + Rs 520 = Rs 7,733

Rs 9,818

Profit = Rs 2,085

e

Rs 9,127

Rs 2,061

Rs 9,127 + Rs 2,061 = Rs 11,188

Rs 10,050

Loss = Rs 1,138

4. Solve

a. A collector buys a painting for Rs 3,500 but to sells it for Rs 2,750. Find the gain or loss.

Given, Cost price = Rs 3,500

Selling Price = Rs 2,750

Here, CP > SP

Hence Loss = CP - SP

= 3,500 - 2,750

= Rs 750

b. A Second hand furniture dealer buys a used table for Rs 3,250. He spends Rs 500 on polishing and repairing it. If he sells it at Rs 4,000, what is his profit?

Cost Price = Rs 3,250

Overheads = Rs 500

So, Total amount he spent = Rs 3250 + Rs 500

= Rs 3,750

Selling Price = Rs 4,000

Profit = 4,000 - 3750

= Rs 250

c. A Calculator that costs Rs 517 is sold at Rs 575. What is the profit that is made?

Cost Price = Rs 517

Selling Price = Rs 575

Profit = Rs 575 - Rs 517

= Rs 58

d. A used dining set is sold for Rs 9,390. It had been bought for Rs 11,500. What is the loss that is incurred?

Cost Price = Rs 11,500

Selling Price = Rs 9,390

Loss = Rs 11,500 - Rs 9,390

= Rs 2,110

e. A furniture mart buys an old sofa set for Rs 5,380. They spend Rs 1,840 to put new covers on it and sell it for Rs 8,000. What is the profit or loss?

Cost Price = Rs 5,380

Overheads = Rs 1,840

Total amount spent = Rs 5,380 + Rs 1,840

= Rs 7,220

Selling Price = Rs 8,000

Profit = Rs 8,000 - Rs 7,220

= Rs 780