CHAPTER – 6 THE JUNK SELLER

Page No 60:

Question 1:
• What about you? Do you also find Maths difficult?
• What is the most difficult thing in your Maths books?
• What do you think is the easiest lesson?
Answer:
Disclaimer: The answer may vary from student to student based or
his/her experience. It is highly recommended that the students prepare the answers on their own.

Page No 61:

Question 1: Find out: how much for a cup of tea?

Ask people and find out the cost of a cup of tea

•	at a tea stall	
•	at a hotel	

Answer:

Disclaimer: The purpose of this section is to make the students observe their surroundings. The answer may vary from student to student based on his/her experience. It is highly recommended that the students prepare the answers on their own.

Question 2: If a person who runs a tea stall earns Rs 30 in a day, how much will he earn in 10 days? _______

And in a month? ______

How did you get the answer? Discuss.

Answer:

Earning of the man in 1 day = Rs 30 Earning of the man in 10 days = Rs 30 × 10 = Rs 300

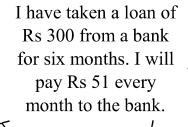
We do it in the following manner:

1 times 30 is 30. 10 times 30 is 300.

Suppose there are 30 days in a month. Earning of the man in a month or

Suppose there are 30 days in a month. Earning of the man in a month or $30 \text{ days} = \text{Rs } 30 \times 30 = \text{Rs } 900 \text{ We do it in the following manner: } 3 \text{ times } 30 \text{ is } 90. 30 \text{ times } 30 \text{ is } 900.$

Question 3: Hariya and Babu want to buy a handcart for Rs 300.



But I have taken a loan of Rs 300 from Chunnilal. After six months, I will pay Rs 360.





Babu

Who has to pay back more — Hariya or Babu?

Answer:

Hariya took a loan of Rs 300 from a bank for 6 months to buy a handcart. He pays Rs 51 every month to the bank. Money paid back by Hariya to the bank in 1 month = Rs 51 Money paid back by Hariya to the bank in 6 months = Rs $51 \times 6 = Rs 306$

We do it in the following manner: $6 \times 50 = 300$

$$6 \times 1 = 6 \text{ So},$$

300 + 6 = 306 So, Hariya paid Rs 306 to the bank after 6 months.

Babu took a loan of Rs 300 from Chunnilal for 6 months to buy a handcart. He paid Rs 360 to Chunnilal after 6 months. Thus, Babu has to pay back more than Hariya for buying the handcart.

Page No 62:

Question 1: I have 9 rickshaws of my own. I give the rickshaws on rent. each for Rs 20 a day. On Sundays I do not take any money for them.

• In a week how much does Kiran earn from one rickshaw?

Answer:

We know that there are 7 days in a week. Earning of Kiran from 1 rickshaw per day = Rs 20 Earning of Kiran from 1 rickshaw for 7 days = $Rs 20 \times 7 = Rs 140$

We do it in the following manner: 2 times 7 is 14. 20 times 7 is 140.

Now, On Sunday, Kiran does not take any money for the rickshaws.

Therefore, earning of Kiran from 1 rickshaw for 6 days = Rs 140 – Rs 20 = Rs 120

We do it in the following manner:

140 - 20 = 120 So, Kiran will earn Rs 120 in a week from 1 rickshaw.

Page No 63:

Question 1: Do it mentally and write the answers.

- 2 × 6 = ____
- 20 × 6 = ____
- 2 × 60 = ____
- 3 × 42 = _____
- 4 × 80 = ____
- 4 × 81 = ____
- 9 × 25 = ____
- 31 × 9 = ____

Answer:

- 12
- 120

We do it in the following manner: 2 times 6 is 12. 20 times 6 is 120.

- 120
- 126

We do it in the following manner:

$$3 \times 40 = 120 \text{ Also},$$

$$3 \times 2 = 6$$
 So, $120 + 6 = 126$

• 320

We do it in the following manner: 4 times 8 is 32. 4 times 80 is 320.

• 324

We do it in the following manner: $4 \times 80 = 320$ Also,

$$4 \times 1 = 4$$
 So, $320 + 4 = 324$

• 225

We do it in the following manner: $9 \times 20 = 180$ Also,

$$9 \times 5 = 45 \text{ So}, 180 + 45 = 225$$

• 279

We do it in the following manner: $30 \times 9 = 270$ Also,

$$1 \times 9 = 9$$
 So, $270 + 09 = 279$

Question 2: Look up the rate list to see today's rates. Help Kiran to find out the cost of the junk.

- How much will Kiran pay for 31 kg newspaper? 1 kg newspaper costs Rs 5. 30 kg cost Rs $5 \times 30 = \text{Rs } 150$. So for 31 kg she pays Rs _____.
- How much will Kiran pay for 42 kg newspaper?
- Also find the cost of:
- (a) 22 kg of plastic (b) 23 kg of waste paper (c) 12 kg of iron

Rate-List

Kind of Junk Price of 1 Kg

1. Waste Paper Rs 4/-

2. Newspaper Rs 5/-

3. Iron Rs 12/-

4. Brass Rs 170/-

5. Plastic Rs 10/-

Can you do this without writing? Guess the total money Kiran will pay to the junk collectors. Will it be — More than 600? — Less than 600?

Answer:

• Cost of 1 kg newspaper = Rs 5

Cost of 31 kg newspaper = Rs 5×31 = Rs 155

We do it in the following manner: $5 \times 30 = 150$

 $5 \times 1 = 5$ So, 150 + 5 = 155

• Cost of 42 kg newspaper = Rs 5×42

= Rs 210 We do it like this: $5 \times 40 = 200 \ 5 \times 2 = 10 \ \text{So}, \ 200 + 10 = 210$

(a) Cost of 1 kg plastic = Rs 10 Cost of 22 kg plastic = 22 × Rs 10 = Rs 220

We do it in the following manner: $22 \times 1 = 22 \ 22 \times 10 = 220$

(b) Cost of 1 kg waste paper = Rs 4 Cost of 23 kg wastepaper = Rs 4 × 23 = Rs 92

We do it in the following manner: $4 \times 20 = 80 \ 4 \times 3 = 12 \ \text{So}$, 80 + 1292(c)Cost of 1 kg iron = Rs 12 Cost of 12 kg iron = Rs $12 \times 12 = \text{Rs}$ 144

We do it in the following manner:

	10	2
10	10 × 10 100	10 × 2 20
2	20	2 × 2 4

Add the numbers in the box

$$100 + 20 + 20 + 4 = 144$$

Total money paid to junk collectors will be = Rs 155 + Rs 210 + Rs 220 + Rs 92 + Rs 144 = Rs 821

$$155 + 210 + 220 + 92 + 144 = 821$$

So, the total money paid to the junk seller is more than Rs 600.

Page No 65:

Question 1:

• Kiran bought 1 kg plastic for Rs 10, but sold 1 kg plastic for Rs 12. How much money does she earn on selling 1 kg plastic? Rs _____ So, how much money does she earn for 63 kg? Rs _____

Answer:

Cost price of 1 kg plastic = Rs 10 Selling price of 1 kg plastic = Rs 12 Profit on selling 1 kg plastic = Rs (12-10) = Rs 2 Profit on selling 63 kg plastic = Rs 2×63 = Rs 126

We do it in the following manner: $2 \times 60 = 120 \ 2 \times 3 = 6$

120+6126Hence, Kiran will earn Rs 126 on selling 63 kg plastic.

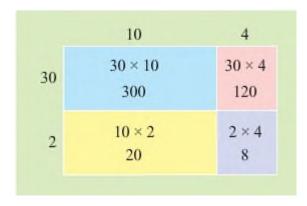
Page No 66:

Question 1:

- How much money will Dinu pay for 32 kg iron?
- Kiran buys 1 kg iron for Rs 12 but sells it for Rs 14. How much does she earn when she sells 32 kg iron? Rs _____

Answer:

• Cost of 1 kg iron = Rs 14 Cost of 32 kg iron = Rs 14×32 = Rs 448 We do it like this:



Add the numbers in the box

$$300 + 120 + 20 + 8 = 448$$

So, Dinu will have to pay Rs 448 for 32 kg iron.

• Cost of 1 kg iron for Kiran = Rs 12

Selling price of 1 kg iron = Rs 14

Profit on selling 1 kg iron = Rs (14 - 12) = Rs 2

Profit on selling of 32 kg iron = Rs 2×32 = Rs 64

We do it in the following manner: $2 \times 30 = 60 \ 2 \times 2 = 4$

So,
$$60 + 4 = 64$$

Thus, Kiran earns Rs 64 on selling 32 kg iron.

Question 2: I bought 1 kg newspaper for Rs 5, but sold it for Rs 6. How much money did I earn by selling 152 kg of newspaper?

Answer:

Cost of 1 kg newspaper = Rs 5 Selling price of 1 kg newspaper = Rs 6

Profit on selling 1 kg newspaper = Rs (6-5) = Re 1

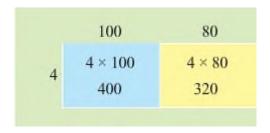
Profit on selling 152 kg newspaper = Re 1×152 = Rs 152

I earned Rs 152 on selling 152 kg of newspaper.

Question 3: How much money will Dinu pay for 4 kg brass? _______ Guess the answer first.

Answer:

Cost of 1 kg brass = Rs 180 Cost of 4 kg brass = Rs 4×180 = Rs 720 We will do it as follows:



Add the numbers in the box

$$400 + 320 = 720$$

Thus, Dinu will pay Rs 720 for 4 kg brass.

Page No 67:

Question 1: First guess the answer and then calculate:

(a)
$$37 \times 18 =$$
 (b) $45 \times 24 =$ (c) $69 \times 52 =$ (d) $77 \times 55 =$

(e)
$$142 \times 5 =$$

(f)
$$382 \times 3 =$$

(g)
$$2 \times 175 =$$

(e)
$$142 \times 5 =$$
 (f) $382 \times 3 =$ (g) $2 \times 175 =$ (h) $4 \times 206 =$

Answer:

(a) Add the numbers in the box

	30	7
10	30 × 10	10 × 7
10	300	70
0	30 × 8	8 × 7
8	240	56

$$300 + 240 + 70 + 56 = 666$$

(b) Add the numbers in the box

	40	5
20	20 × 40	20 × 5
20	800	100
4	4 × 40	4×5
4	160	20

$$800 + 100 + 160 + 20 = 1080$$

(c) Add the numbers in the box

	60	9
50	60 × 50 3000	50 × 9 450
2	2 × 60 120	2 × 9 18

$$3000 + 450 + 120 + 18 = 3588$$

(d) Add the numbers in the box

	70	7
50	70 × 50 3500	50 × 7 350
5	5 × 70 350	5 × 7 35

$$3000 + 350 + 350 + 35 = 4235$$

(e) Add the numbers in the box

$$500 + 200 + 10 = 710$$

(f) Add the numbers in the box

$$900 + 240 + 6 = 1146$$

(g). Add the numbers in the box

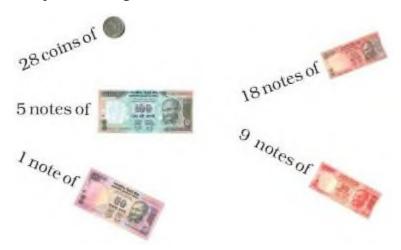
	100	70	5
2	2 × 100	2 × 70	2 × 5
4	200	140	10

$$200 + 140 + 10 = 350$$

$$800 + 24 = 824$$

Page No 68:

Question 1: Later she paid Rs 919 to the junk collectors. When she sold the junk she got these notes and coins from Dinu.



Now you make a record in her diary. Find out how much she earned this time.



Answer:

eeeee	00			March 2007
		Money	I paid =	Rs 919
Money I got - Rs	500			
- Rs	50			
-Rs	180			
-Rs	180			
- Rs	140			
Total Rs	1050		Rs	1050
			-Rs	919
	Mone	ey I earned:	Rs	131

We do it as follows:

5 notes of 100 rupees

 $5 \times 100 = \text{Rs } 500$

1 note of 50 rupees

 $1 \times 50 = \text{Rs } 50$

18 notes of 10 rupees

$$18 \times 1 = 18$$

$$18 \times 10 = \text{Rs} \ 180$$

9 notes of 20 rupees

$$9 \times 2 = 18 \ 9 \times 20 = \text{Rs} \ 180$$

28 coins of 5 rupees

$$20 \times 5 = 100$$

$$8 \times 5 = 40$$

$$100 + 40 = 140$$

$$28 \times 5 = \text{Rs } 140$$

Money I got = Rs 500 + Rs 50 + Rs 180 + Rs 180 + Rs 140 = Rs 1050

$$500 + 50 + 180 + 180 + 140 = 1050$$

Money I earned = Rs 1050 - Rs 919 = Rs 131

$$1050 - 919 = 0131$$