











Have you ever met a *Kabariwali* – a woman who sells junk? This is a true story told by Kiran, who has a junk shop in Patna.

I studied in a Hindi medium school in my village. My father wanted girls to study like boys. I loved Hindi and Science, but I hated Maths! Today Maths is most useful for my work. I could never imagine this in school.

What about you? Do you also find Maths difficult?

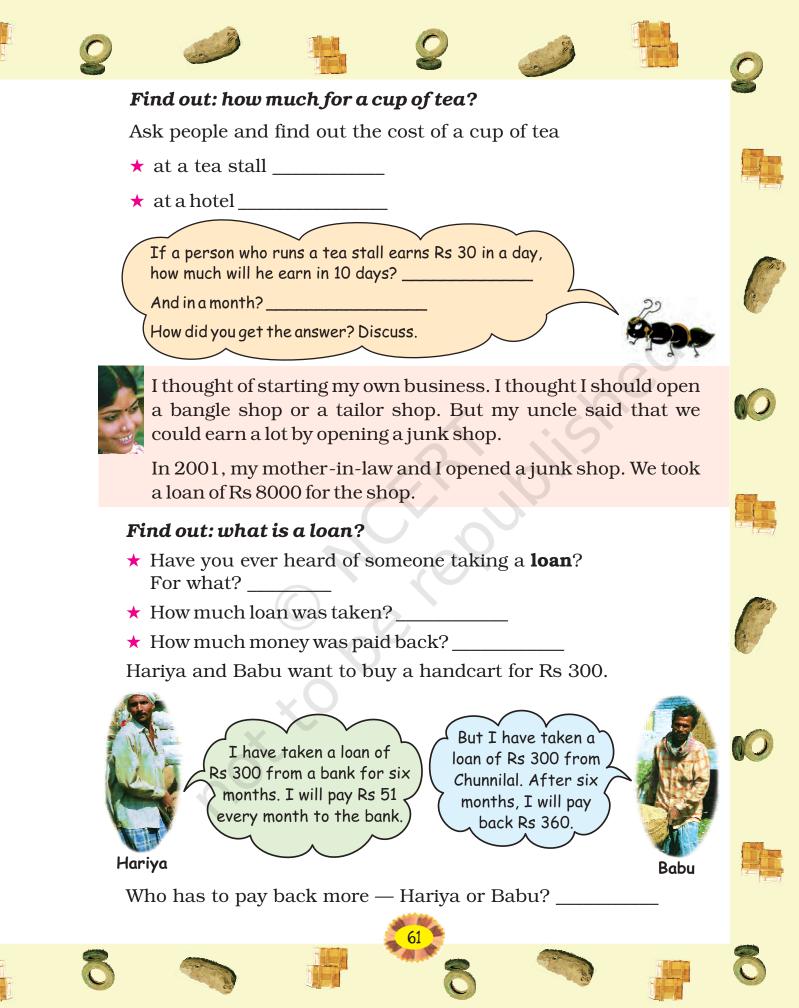
What is the most difficult thing in your Maths book?\_\_\_\_\_

What do you think is the easiest lesson? \_\_\_\_

When I was young, my father died in an accident. So my mother worked as a servant in some houses. We had a difficult time. I had to leave school after Class VIII. I wanted to study more but my mother got me married.

My husband's family lived in a mud house. His two brothers and his sister did not go to school. He had a tea stall.





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People laughed and teased us about our work. They called it *ganda kaam* or 'dirty business'. But I did not think so. I knew this idea would work.

Now we have a *pucca* house with electricity. We have a fridge, a TV and a gas stove. My husband's brothers, sister and also my daughter go to school.





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.



For 1 rickshaw she gets Rs 20 per day.

So, for 9 rickshaws she will earn Rs \_\_\_\_\_

How did you do it?

Hey! I will do it like this – 9 times 2 is 18. So, 9 times 20 is 180. But I find this easier. For 10 rickshaws she will get Rs 20 × 10 = Rs 200.

\_So, for 9 rickshaws, she will get Rs 200 - \_\_\_\_ =\_\_\_\_ .

Think of some other ways to do it.

Encourage children to use their own strategies to solve such problems. There should be discussion on how they arrived at their answers.







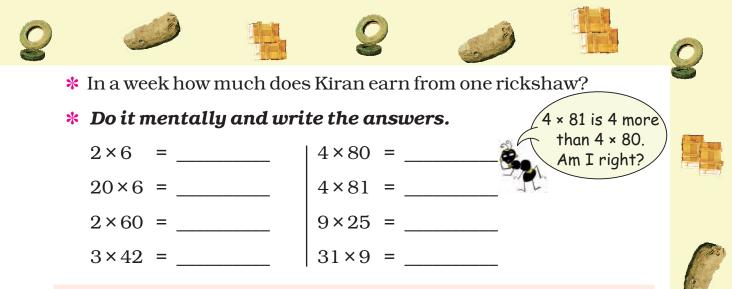














I have my own small junk shop. I buy junk from junk collectors. They go from house to house and bring junk on handcarts. I then sell it at the big shop.

## How Much to Pay for this Junk?

Kiran has bought some junk from junk collectors.

Look at the next page the rate list to see today's rates. Help Kiran to find out the cost of the junk. 1 kg newspaper costs Rs 5. 30 kg cost Rs 5 × 30 = Rs 150. So for 31 kg she pays Rs \_\_\_\_\_.

\* How much will Kiran pay for 31 kg newspaper?

This exercise encourages children to use different strategies (other than the standard algorithm) for doing multiplication.













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Price of 1 Kg



# 1. Waste Paper ..... Rs 4/-

Kind of Junk

- 2. Newspaper ...... Rs 5/-
- 3. Iron ..... Rs 12/-
- 4. Brass ..... Rs 170/-
- 5. Plastic ..... Rs 10/-

Can you do this without writing?

- \* 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

Guess the total money Kiran will pay to the junk collectors. Will it be — More than 600? — Less than 600?

#### Smart Kiran Sells the Junk

Kiran sells her junk to a big shop. She checks the prices on her mobile phone and sells only when she gets a good price.



Today she has gone to sell plastic, newspaper, iron and brass at Dinu's big shop.

Dinu weighs 32 kg iron, 4 kg brass, 152 kg newspaper, 63 kg plastic.

















#### A. How much will Dinu pay for 63 kg plastic?

The rate of 1 kg plastic is Rs 12. So the cost of 63 kg plastic will be Rs 12 × 63.

Remember, you used boxes to multiply two numbers in Class III.

60	3
$60 \times 10$	3×10
600	30
$60 \times 2$	3×2
120	6
	60 × 10 <b>600</b> 60 × 2

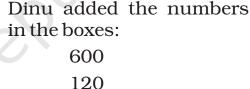
# Dinu's Rate-List

Kind of Junk Price of 1 Kg

- 1. Newspaper ...... Rs 6/-
- 2. Iron ..... Rs 14/-
- 3. Brass ..... Rs 180/-
- 4. Plastic ..... Rs 12/-
- 5. Waste Paper ..... Rs 4.50/-

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12 × 63 means 12 times 63. 12 times 60 is 720. So, the answer is more than 720. Also the answer is less than 800. Can you tell why?





So, for 63 kg plastic, Dinu will give Rs 756.

\* 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\_\_\_\_\_















### B. Kiran sells 32 kg iron

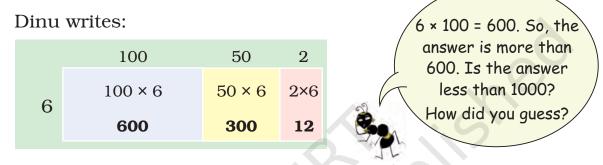
- \* How much money will Dinu pay for 32 kg iron?
- \* Kiran buys 1 kg iron for Rs 12, but sells it for Rs 14.

How much does she earn when she sells 32 kg iron? Rs \_\_\_\_\_

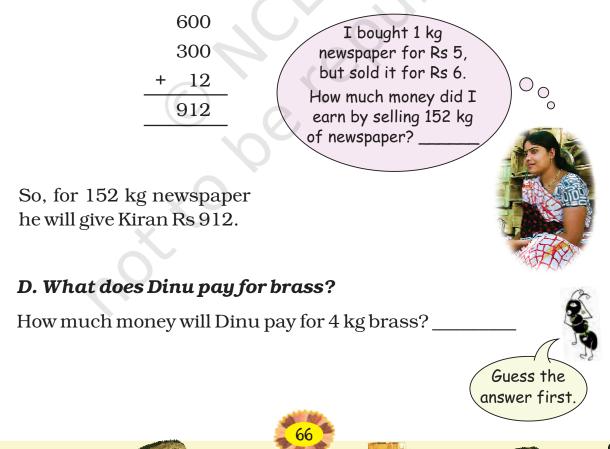
# C. What will Dinu pay for 152 kg newspaper?



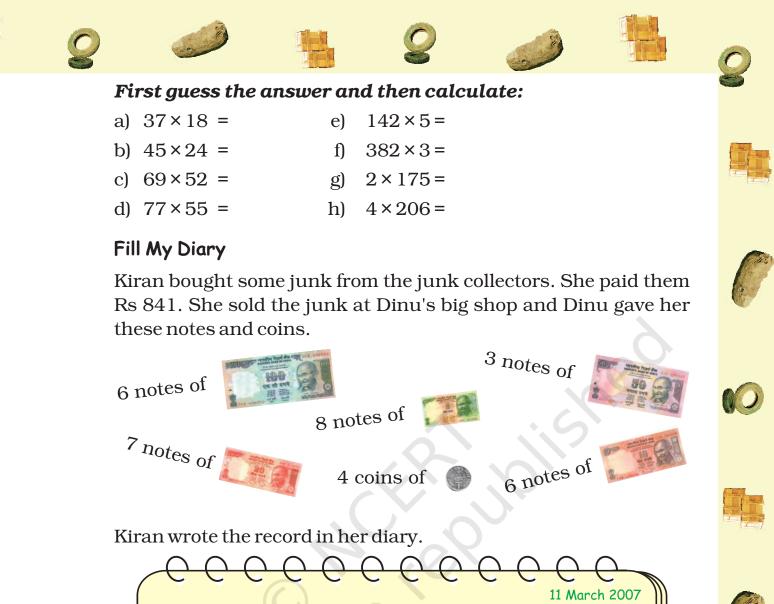
The rate of 1 kg newspaper is Rs 6. So the cost of 152 kg newspaper is  $Rs 6 \times 152$ .



Then he adds the numbers in the boxes:







		11 March 200	7   )
	Money I paid	d — Rs 841	_    //
Money I got— Rs 600			
— Rs 150			
— Rs 140			
— Rs 60			
— Rs 40			
-Rs 4			
Total Rs 994			
		Rs 994	
		– Rs 841	
Mon	ey I earned :	Rs 153	

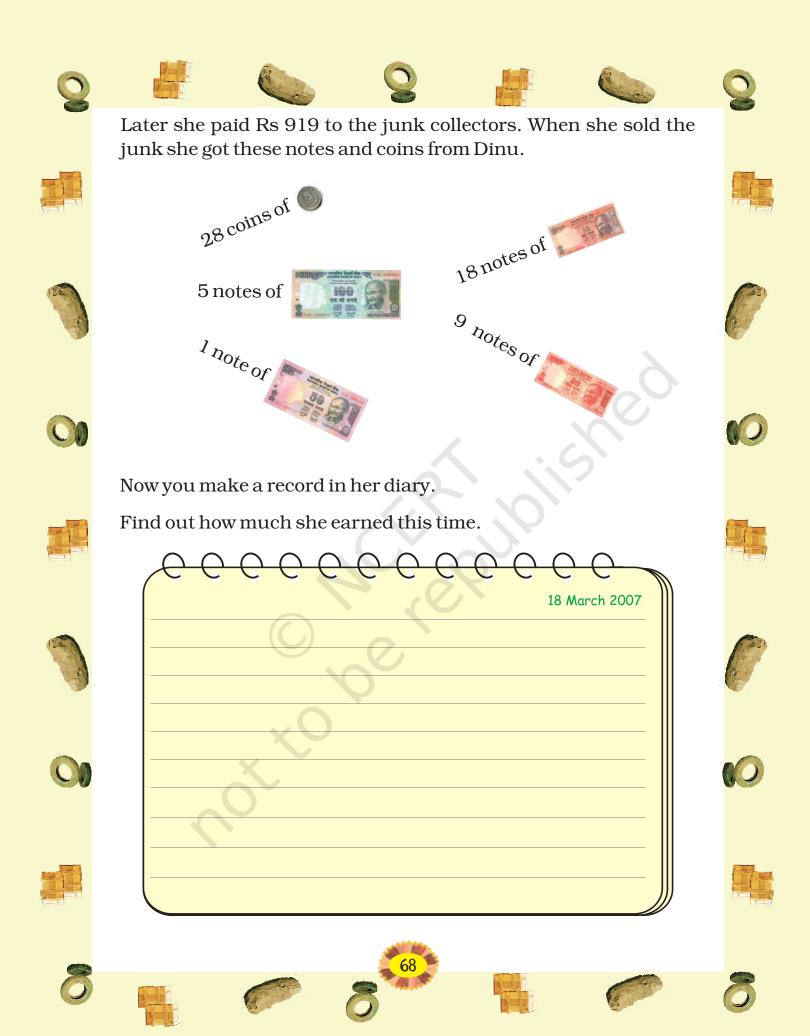












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