



١	Person		Salary in a day
	Minister	_	₹ 195
	Horse rider	_	₹ 76
	Cook	_	₹ 65

	60	5
30	60 × 30	5×30
00	1800	150
1	60×1	5×1
1	60	5

(17) Ware #	Multiply and	1 D*****	
tion ways n	TAME GEORGE		
	Maniratnam - The C	ashier	0527CH13
	Maniratnam is the of job is to find out the who work for the kind much salary each person	e salary of all ng. This chart s erson gets in a d	the people shows how ay.
	Minister	— ₹ 19	5
	Horse ric Cook	der — ₹ 76 — ₹ 65	
	Manira	itnam wanted	to calculate
7		lary of the co	
	month	of January. He	e wrote — 5
- CC - C	30	60 × 30	5 × 30
		1800 60 × 1	150 5 × 1
	1	60	5
Rupees 1800 + 1	50 + 60 + 5 = ₹		
	ughter Bela has lear e like this and showed it		
Akka, how did	65		We can multiply
you do this?	×31 65 (65×	(1)	65 with 31 in two steps. We know
	(0.5)	-	31 is 30 + 1. So, first multiply 65
	+1950		with 1 and then with 30.
	170	4-7	*



Now Bhanu tried to find the salary of a minister for the month of January. He wanted to multiply 195×31 .

To multiply by 30 I first write a zero here. Then I only have to multiply by 3.

Practice time

- 1) Use Bela's method to multiply these numbers.
 - 32×46
 - 67×18 b)

$$\begin{array}{c}
32 \\
\times 46 \\
\hline
192 \\
\end{array}$$
(32×6)

+
____ (32×40)

- 2) Do these in your notebook using Bela's method.
 - 47×19 a)

188×91

 63×57

 225×22

 360×12 e)

 163×42 f)









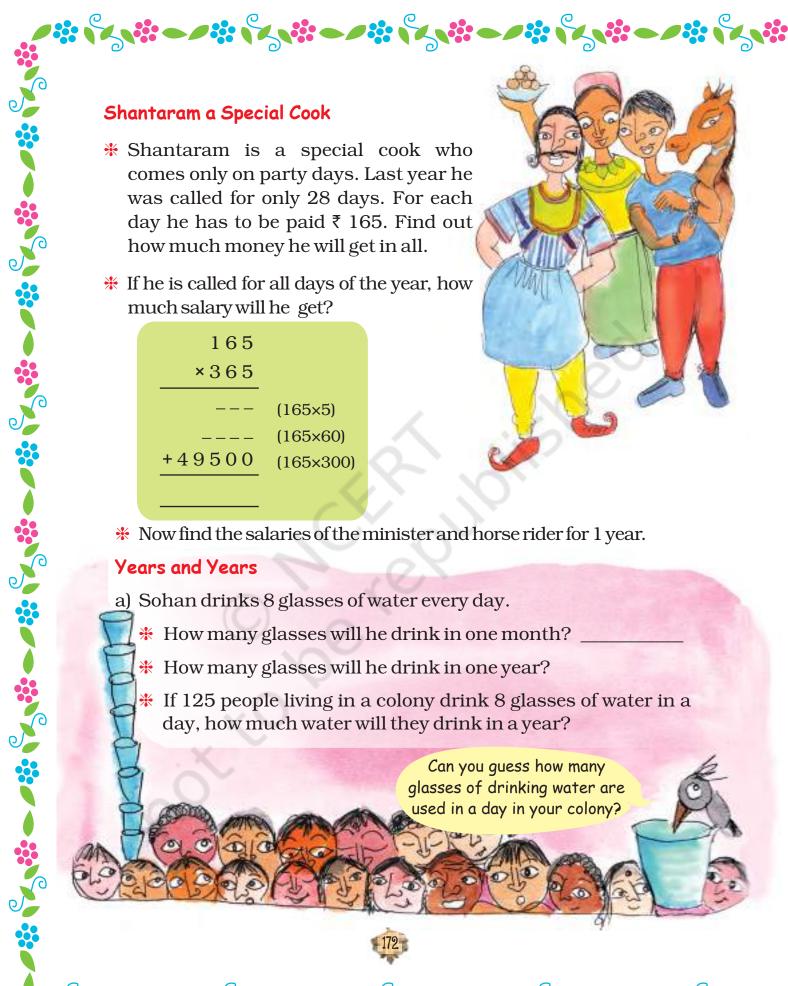








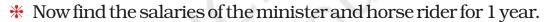




Shantaram a Special Cook

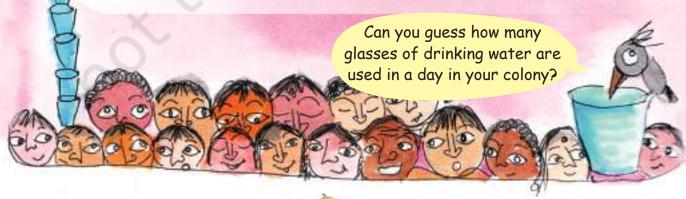
* Shantaram is a special cook who comes only on party days. Last year he was called for only 28 days. For each day he has to be paid ₹ 165. Find out how much money he will get in all.

If he is called for all days of the year, how much salary will he get?



Years and Years

- a) Sohan drinks 8 glasses of water every day.
 - * How many glasses will he drink in one month?
 - * How many glasses will he drink in one year?
 - * If 125 people living in a colony drink 8 glasses of water in a day, how much water will they drink in a year?



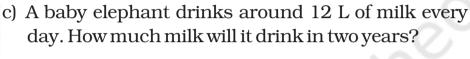


b) If Soha's heart beats 72 times in one minute, how many times does it beat in one hour?

Guess how many times it beats in one year.

- * Now find out how many times it beats in one day.
- * Count your own heart beats to find out how many times your heart beats in one week.

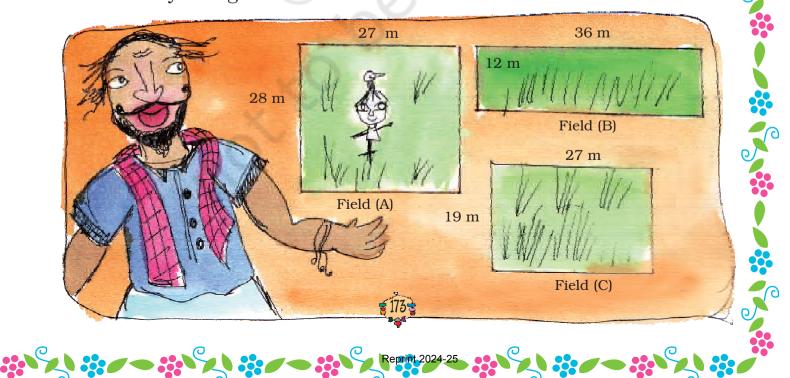


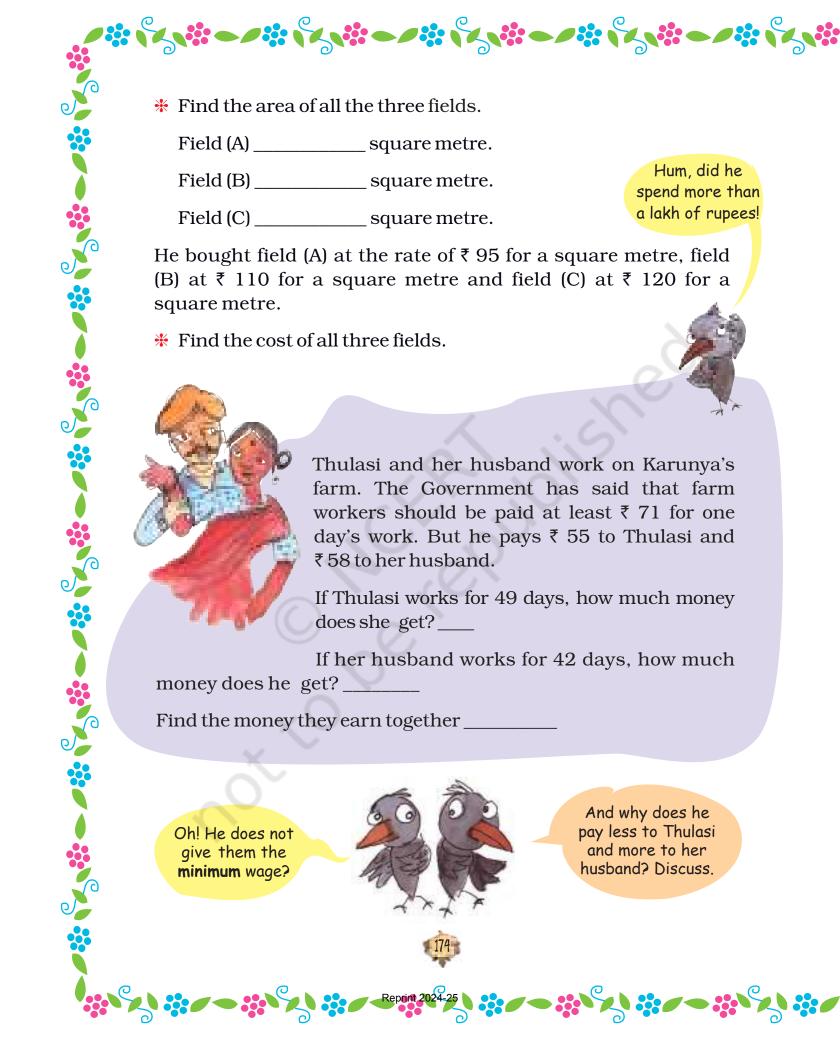


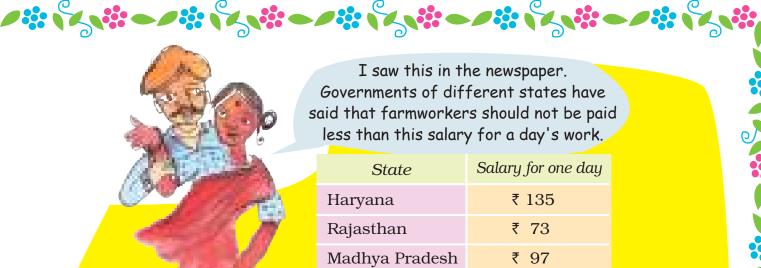
d) A baby blue whale drinks around 200 L of milk in one day. Just imagine how much milk that is! Find out in how many days your family would use 200 L milk. How much milk would the baby blue whale drink in eight months?

Karunya — The Landlord

Karunya bought three fields.







I saw this in the newspaper. Governments of different states have said that farmworkers should not be paid less than this salary for a day's work.

State	Salary for one day
Haryana	₹ 135
Rajasthan	₹ 73
Madhya Pradesh	₹ 97
Orissa	₹ 75

The table shows the amounts fixed by four states.

- a) For farm work which state has fixed the highest amount? Which state has fixed the lowest?
- b) Bhairon Singh is a worker in Rajasthan. If he works for 8 weeks on the farm, how much will he earn?
- c) Neelam is a worker in Haryana. If she works for 2½ months on the farm, how much will she earn?
- d) How much more will a farm worker in Madhya Pradesh get than a worker in Orissa after working for 9 weeks?

Farmers in Vidarbha (Maharashtra)

Vidarbha is facing a very serious problem. There was no rain and crops failed. Many farmers were unhappy. Some farmers even ended their own lives. A newspaper reporter went around the area and spoke to the people. He wrote these two reports.



Satish's story

Satish is a 13 year old boy. His father had taken a loan for farming. But the crops failed. Now Satish's mother has to pay ₹ 5000 every month for the loan.

Satish started working — he looked after 17 goats of the village.

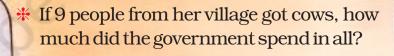
He earns ₹ 1 everyday for one goat.

- * How much will he earn in one month?
- * Does he earn enough to help pay the loan every month?
- * How much will he earn in one year?

Kamla Bai's story

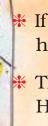
To help farmers the State Government gave cows. Kamla Bai Gudhe also got a cow. The cost of the cow was ₹ 17,500. She had to pay ₹ 5,500 and the government spent the rest of the money.

* How much did the government spend on the cow?

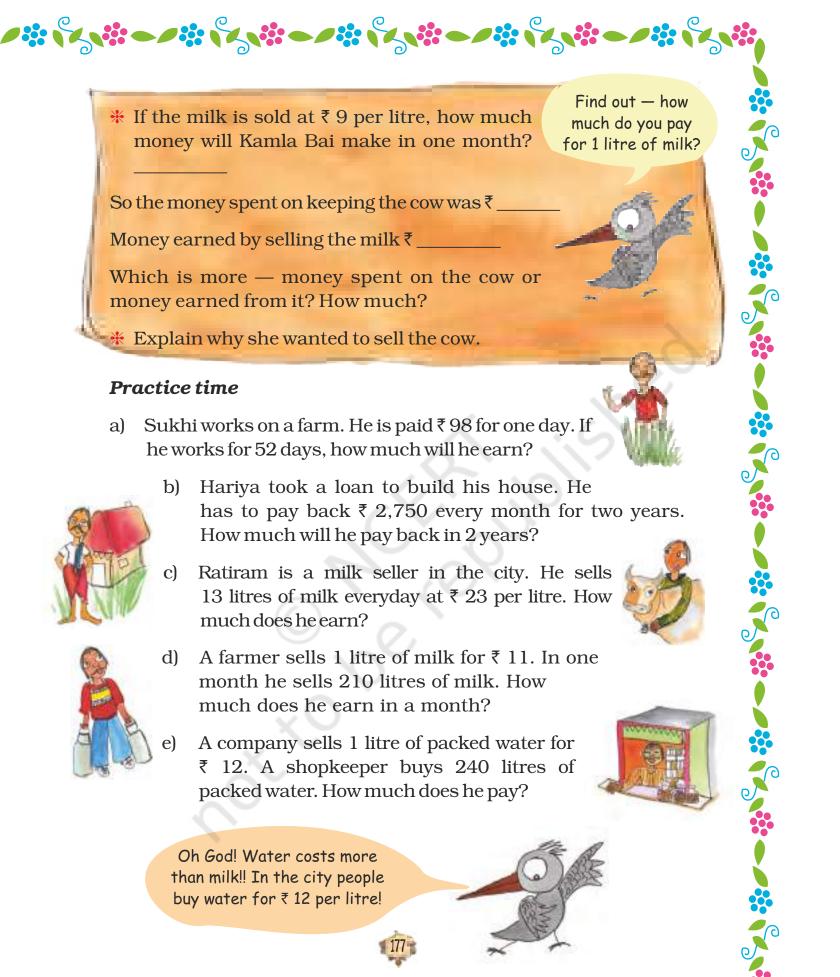


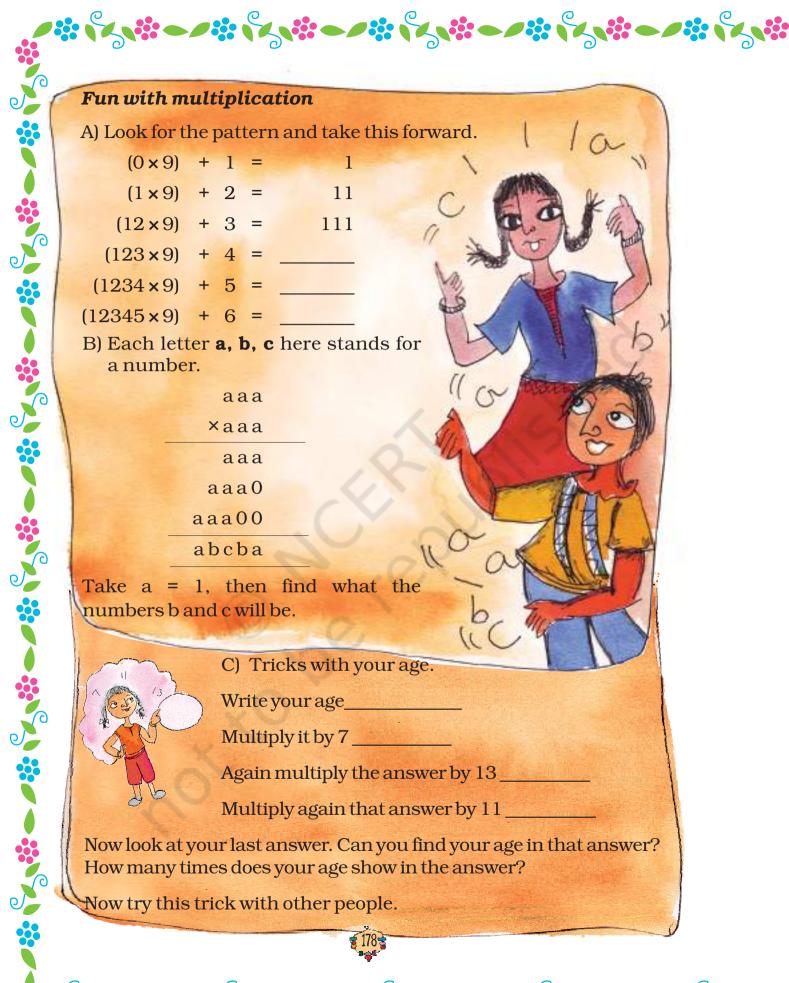
But Kamla Bai was not happy. She had to spend ₹ 85 everyday on the cow. She made some money by selling the milk. But still she wanted to sell the cow.

- If Kamla Bai spends ₹ 85 a day, find out how much she will spend in one month.
- * The cow gives 8 litre of milk everyday. How much will it give in one month?









Fun with multiplication

A) Look for the pattern and take this forward.

$$(0 \times 9) + 1 = 1$$

$$(1 \times 9) + 2 = 11$$

$$(12 \times 9) + 3 = 111$$

$$(123 \times 9) + 4 =$$

$$(1234 \times 9) + 5 =$$

$$(12345 \times 9) + 6 =$$

B) Each letter a, b, c here stands for a number.

2	9	9
a	a	a

aaa

aaa

aaa0

aaa00

abcba

Take a = 1, then find what the numbers b and c will be.



C) Tricks with your age.

Write your age

Multiply it by 7

Again multiply the answer by 13

Multiply again that answer by 11

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Now look at your last answer. Can you find your age in that answer? How many times does your age show in the answer?

Now try this trick with other people.





D) Going round and round!

	-0-3-0-4-0-6-0
-0-1-0-0	-0-3-4-4-0-1-0-

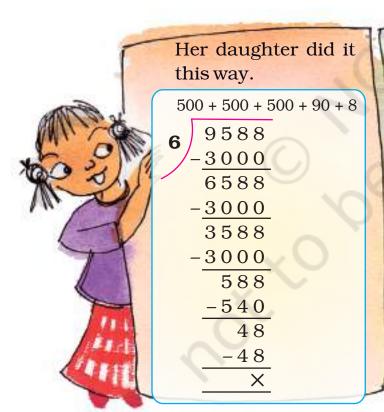
Do you find a pattern in all these answers? Discuss this with your friends.

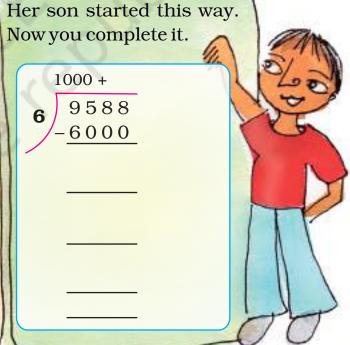
Division

Dolma took a loan from a friend to buy a moped for ₹ 9,588. She has to pay it back in equal amounts every month for six months.

* How much will she have to pay every month? She asked her children to calculate.



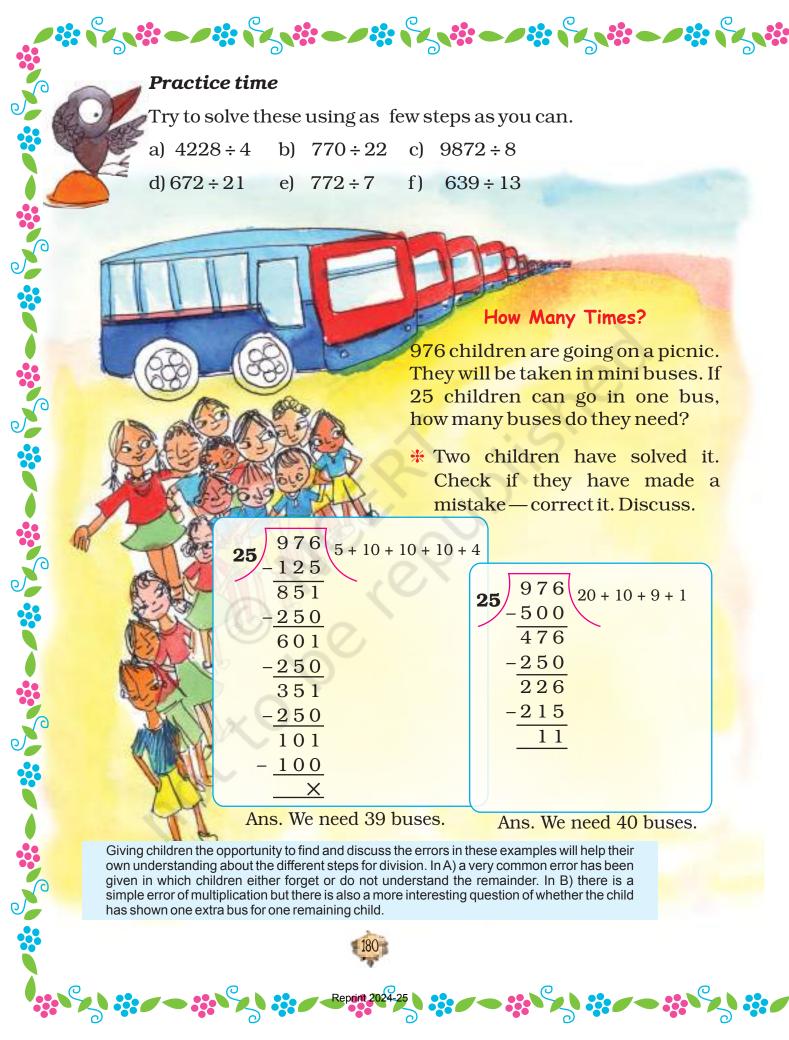




Will both of them get the same answer? Discuss.











How Much Petrol?

Isha has ₹ 1000 with her. She wants to buy petrol. One litre of petrol costs ₹ 47. How many litres can she buy?

Money with Isha = ₹1000

Cost of 1 litre = ₹47

Litres of petrol she can buy = ₹ 1000 ÷ ₹ 47 = ?

Isha can buy _____ litres of petrol.

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Find out

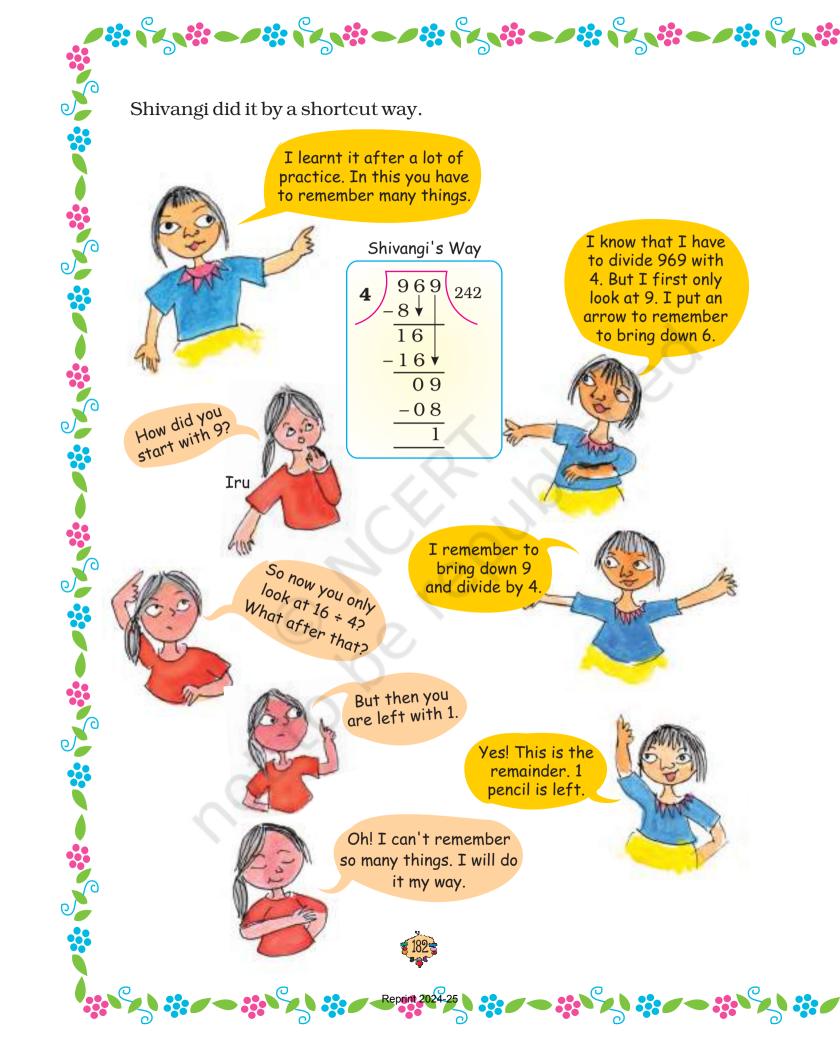
If Isha comes to your city, how much petrol can she buy with the same money?

Children's Day

Children are happy today. They are celebrating Children's Day. Each child will be given 4 coloured pencils from school. The school has got 969 pencils. To find out how many children can get pencils the teacher asks them to divide.



Complete Iru's and Sreeni's way of division. What is the answer you get?





Practice Time



- * 576 books are to be packed in boxes. If one box has 24 books, how many boxes are needed?
- * 836 people are watching a movie in a hall. If the hall has 44 rows, how many people can sit in 1 row?
- * A gardener bought 458 apple trees. He wants to plant 15 trees in each row. How many rows can he plant?

How many trees would be left over?



Brain Teaser

* Shyamli bought a battery. She read on it 'Life: 2000 hours'. She uses it throughout the day and the night. How many days will the battery run?

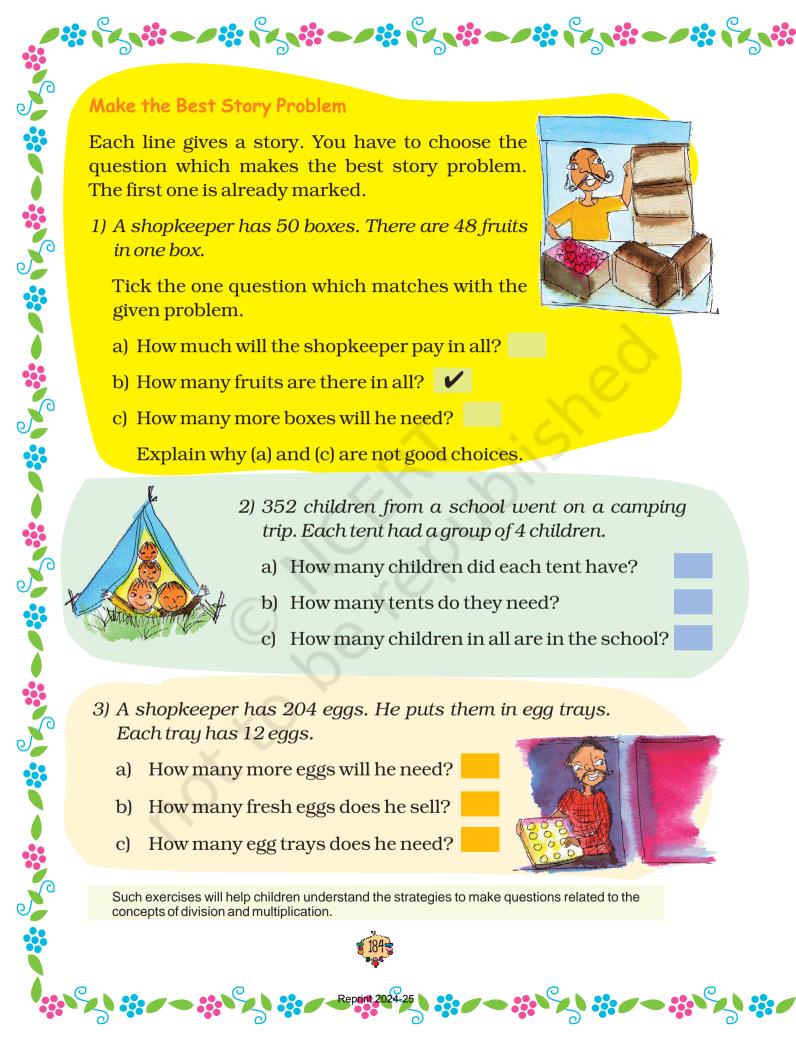
More with Multiplication and Division

* A tank is full of 300 L of water. How much water will be filled in 25 tanks? If 15 buckets can be filled with one tank of water, how many buckets in all can be filled with the water in 25 tanks?



- * There are 28 laddoos in 1 kg. How many laddoos will be there in 12 kg? If 16 laddoos can be packed in 1 box, how many boxes are needed to pack all these laddoos?
 - * There are 26 rooms in a school. Each room has 4 plants. If each plant needs 2 cups of water, how much water do we need for all the plants?













- 4) The cost of one book is ₹ 47. Sonu buys 23 books.
 - a) How much money does she have?
 - b) How much money does she pay for the books?
 - c) What is the cost of 47 books?

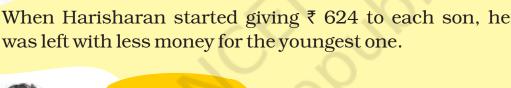




Cross Check for Harisharan

Harisharan wanted to divide ₹ 2,456 amongst his 4 sons. He asked his eldest son to tell him how much money each one will get.

Papa, each of us will get 2456 ÷ 4 = ₹ 624.





It seems you have made some mistake in the calculations.

Let me check.

Harisharan multiplied 624 with 4. He got = ₹ 2,496.

Hum! This shows you have done the division wrong.

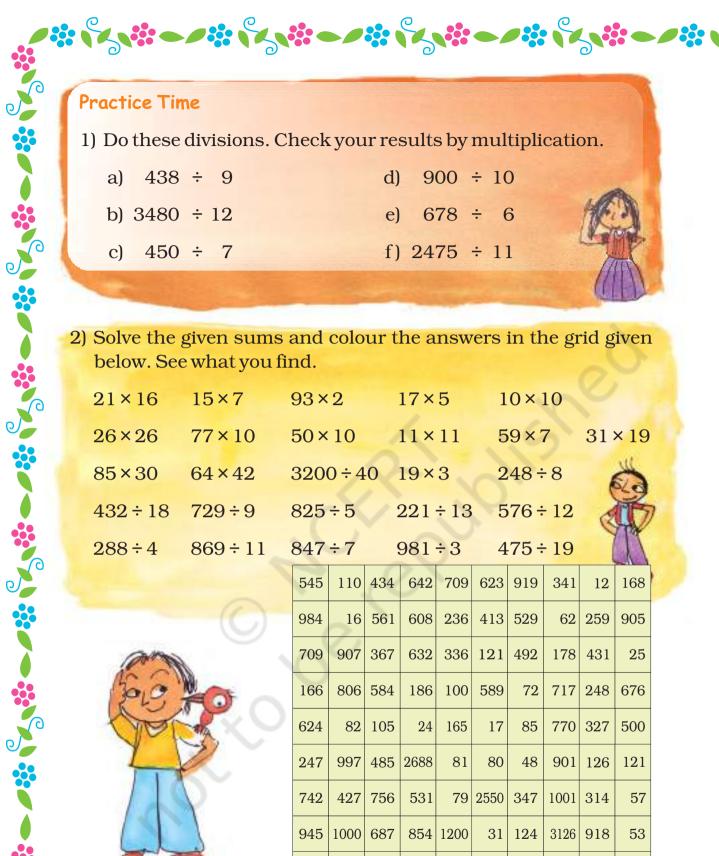


The son did the division again $2456 \div 4 = 614$.

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Before telling his father he checked on his own.

 $614 \times 4 = 2456$. Now, it is correct. Each one will get ₹ 614.





545	5 110	434	642	709	623	919	341	12	168
984	16	561	608	236	413	529	62	259	905
709	907	367	632	336	121	492	178	431	25
166	806	584	186	100	589	72	717	248	676
624	82	105	24	165	17	85	770	327	500
247	7 997	485	2688	81	80	48	901	126	121
742	2 427	756	531	79	2550	347	1001	314	57
945	5 1000	687	854	1200	31	124	3126	918	53
109	799	845	1999	864	955	123	1234	678	56
549	459	614	1864	834	559	900	1111	268	171

