

NCERT Solutions for 5th Class Maths Chapter 13- Ways To Multiply And Divide



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NCERT Solutions for 5th Class Maths Chapter 13- Ways To Multiply And Divide

Class 5: Maths Chapter 13 solutions. Complete Class 5 Maths Chapter 13 Notes.

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Maniratnam—The Cashier

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Maniratnam is the cashier of king Jayan. His job is to find out the salary of all the people who work for the king. This chart shows how much salary each person gets in a day.

<i>Person</i>	<i>Salary in a day</i>
Minister	₹ 195
Horse rider	₹ 76
Cook	₹ 65

Maniratnam wanted to calculate the salary of the cook for the month of January. He wrote:

	60	5
30	$60 \times 30 = 1800$	$5 \times 30 = 150$
1	$60 \times 1 = 60$	$5 \times 1 = 5$

Rupees $1800 + 150 + 60 + 5 = \text{Rs}2015$

Maniratnam's daughter Bela had learnt another method to multiply. She wrote like this and showed it to Bhanu, her brother.

Akka, how did you do this?

$$\begin{array}{r} 65 \\ \times 31 \\ \hline 65 \\ + 1950 \\ \hline 2015 \end{array}$$

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You can multiply 65 with 31 in two steps. You know that 31 is $30 + 1$. So, in the first step multiply 65 with 1 and in the second step multiply 65 with 30.

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

$$\begin{array}{r} 195 \\ \times 31 \\ \hline 195 \\ + 5850 \\ \hline 6045 \end{array}$$

First step: Multiply 195 by 1

Second step: Multiply 195 by 30

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Practice Time

1. Use Bela's method to multiply these numbers.

Ans.

(a) 32×46

$$\begin{array}{r} 32 \\ \times 46 \\ \hline 192 \\ + 1280 \\ \hline 1472 \end{array}$$

(b) 67×18

$$\begin{array}{r} 67 \\ \times 18 \\ \hline 536 \\ + 670 \\ \hline 1206 \end{array}$$

2. Do these in your notebook using Bela's method.

(a) 47×19 (b) 188×91 (c) 63×57

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(d) 225×22 (e) 360×12 (f) 163×42

Ans.

$$\begin{array}{r} (a) \quad 47 \\ \times 19 \\ \hline 423 \\ + 470 \\ \hline 893 \end{array}$$

$$\begin{array}{r} (b) \quad 188 \\ \times 91 \\ \hline 188 \\ + 16920 \\ \hline 17108 \end{array}$$

$$\begin{array}{r} (c) \quad 63 \\ \times 57 \\ \hline 441 \\ + 3150 \\ \hline 3591 \end{array}$$

$$\begin{array}{r} (d) \quad 225 \\ \times 22 \\ \hline 450 \\ + 4500 \\ \hline 4950 \end{array}$$

$$\begin{array}{r} (e) \quad 360 \\ \times 12 \\ \hline 720 \\ + 3600 \\ \hline 4320 \end{array}$$

$$\begin{array}{r} (f) \quad 163 \\ \times 42 \\ \hline 326 \\ + 6520 \\ \hline 6846 \end{array}$$

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Shantaram—A Special Cook

1. 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.

Ans. Wages for a day = Rs 165

Number of days worked = 28

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$$\begin{array}{r} 165 \\ \times 28 \\ \hline 1320 \\ + 3300 \\ \hline 4620 \end{array}$$

Shantaram got Rs 4620

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

Ans.

$$\begin{array}{r} 165 \\ \times 28 \\ \hline 1320 \\ + 3300 \\ \hline 4620 \end{array}$$

Rs 60225.

3. Now find the salaries of the minister and horse rider for 1 year.

Ans. Minister's salary for one day = Rs 195

$$\begin{array}{r} 165 \\ \times 28 \\ \hline 1320 \\ + 3300 \\ \hline 4620 \end{array}$$

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Rs 71,175.

Horse rider's salary for one day = Rs76

$$\begin{array}{r} 76 \\ \times 365 \\ \hline 380 \\ 4560 \\ + 22800 \\ \hline 27720 \end{array}$$

Rs 27,720

Years and Years

(a) Sohan drinks 8 glasses of water everyday.

1.How many glasses will he drink in one month?

Ans. $8 \times 30 = 240$

2.How many glasses will he drink in one year?

Ans. $8 \times 365 = 2920$

3.If 25 people living in a colony drink 8 glasses of water in a day, how much water
—

will they drink in a year?

Ans. $8 \times 125 = 1000$

They will drink 1000 glassed of water in a day

Hence, in 365 days they will drink:

$365 \times 1000 = 365,000$ glasses of water

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4.Can you guess how many glasses of drinking water are used in a day in your colony?

Ans.Number of people in my colony = 500 Hence, $8 \times 500 = 4000$

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

•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.

Ans.Number of heart beats in 1 minute = 72

Hence,number of heart beats in 1 hour or 60 minutes = $60 \times 72 = 4320$

Number of heart beats in 1 day or 24 hours = $4320 \times 24 = 103680$

$$\begin{array}{r} 4320 \\ \times 24 \\ \hline 17280 \\ + 86400 \\ \hline 103680 \end{array}$$

My heart beats 70 times in a minute.

Hence, my heart beats in 1 hour = $70 \times 60 = 4200$

My heart beats in 1 day = $4200 \times 24 = 100800$

My heart beats in 1 week = $100800 \times 7 = 705600$

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(c) A baby elephant drinks around 12 L of milk every day. How much milk will it drink in two years?

Ans. Number of days in 2 years = $365 \times 2 = 730$

Milk consumed in 1 day = 12 L

Hence, milk consumed in 730 days = $730 \times 12 = 8760$ L

$$\begin{array}{r} 730 \\ \times 12 \\ \hline 1460 \\ + 7300 \\ \hline 8760 \end{array}$$

Hence, the baby elephant consumes 8,760 L of milk in two years.

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

Ans. Milk consumed by baby whale in 1 day = 200 L

Milk consumed by baby whale in 30 days = $200 \times 30 = 6000$ L
Milk consumed by baby whale in 8 months = $6000 \times 8 = 48000$ L
My family consumes 5 L milk in a day

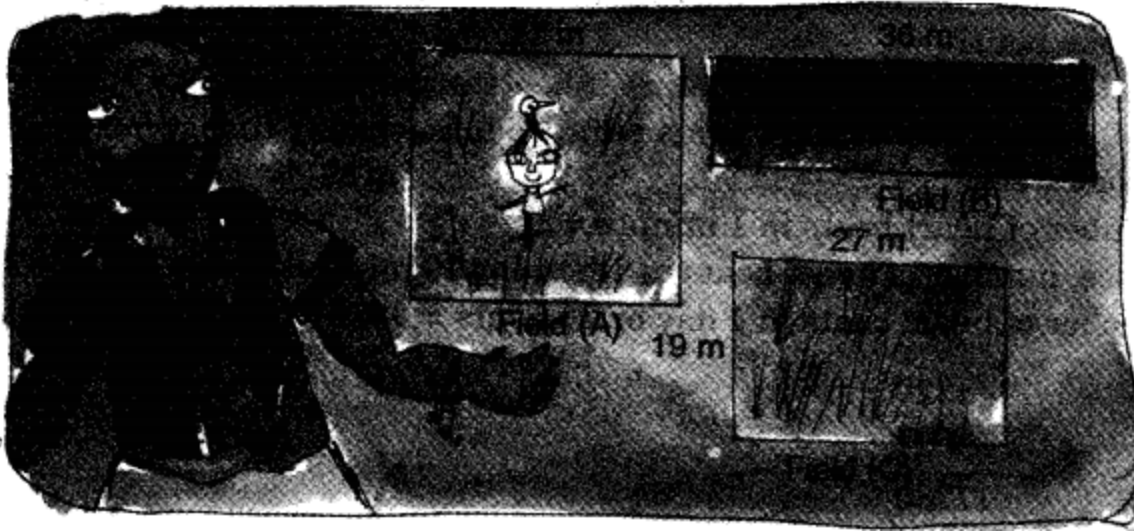
Hence, number of days for consuming 200 L milk = $200 \div 5 = 40$ days

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Karunya—The Landlord

Karunya bought three fields

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1. Find the area of all the three fields.

Field (A).....square metre

Field (B).....square metre

Field (C).....square metre

Ans.

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Area of Field A:	28
Area of rectangle	$\times 27$
$= \text{Length} \times \text{Breadth}$	196
$= 28 \times 27$	$+ 560$
$= 756 \text{ square m}$	756

Area of field B:	36
Area of rectangle	$\times 12$
$= \text{Length} \times \text{Breadth}$	72
$= 36 \times 12$	$+ 360$
$= 432 \text{ square m}$	432

Area of field C:	27
Area of rectangle	$\times 19$
$= \text{Length} \times \text{Breadth}$	243
$= 27 \times 19$	$+ 270$
$= 513 \text{ square m}$	513

2.He bought field (A) at the rate of Rs95 for a square metre, field (B) at Rs110 for a square metre and field (C) at Rs 120 for a square metre. Find the cost of all three fields

Ans.

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Cost of Field A:	756
Rate of field A = ₹ 95	× 95
Hence, Cost = Area × Rate	3780
= 756 × 95	+ 68040
= ₹ 71820	71820
Cost of field B:	432
Rate of field B = ₹ 110	× 110
Cost = Area × Rate	000
= 432 × 110	43200
= ₹ 47520	+ 43200
	47520
Cost of field C:	513
Rate of field C = ₹ 120	× 120
Cost = Area × Rate	000
= 513 × 120	1026
= ₹ 61,560	+ 51300
	61560

Now, cost of all three fields

$$= 71820 + 47520 + 61560 = \text{Rs } 1,80,900$$

3. Thulasi and her husband work on Karunya's farm. The Government has said that farmworkers should be paid at least Rs 71 for one day's work. But he pays Rs 55 to Thulasi and Rs 58 to her husband.

- If Thulasi works for 49 days, how much money does she get?
- If her husband works for 42 days, how much money does he get?
- Find the money they earn together.

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Ans. Thulasi's one day's wages = Rs 55

Hence, 49 day's wages = $49 \times 55 = \text{Rs } 2695$

$$\begin{array}{r} 49 \\ \times 55 \\ \hline 245 \\ + 2450 \\ \hline 2695 \end{array}$$

Her husband's one day's wages = Rs 58

Hence, 42 day's wages = $58 \times 42 = \text{Rs } 2436$

$$\begin{array}{r} 58 \\ \times 42 \\ \hline 116 \\ + 2320 \\ \hline 2436 \end{array}$$

Their combined earnings $2695 + 2436 = \text{Rs } 5131$

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I saw this in the newspapers. 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?

Haryana has fixed the highest amount and Rajasthan 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?

Wages for a day in Rajasthan = ₹ 73

Hence, wages for a week = $73 \times 7 = ₹ 511$

Wages for 8 weeks = $511 \times 8 = ₹ 4088$

- (c) Neelam is a worker in Haryana. If she works for $2\frac{1}{2}$ months on the farm, how much will she earn?

Wages for a day in Haryana = ₹ 135

Number of days in 2 and $\frac{1}{2}$ months

$$= 2 \times 30 + \frac{1}{2} \times 30$$

$$= 60 + 15 = 75 \text{ days}$$

Wages for 75 days = 135×75

$$= ₹ 10125$$

135

$\times 75$

675

+ 9450

10125

- (d) How much more will a farm worker in Madhya Pradesh get than a worker in Orissa after working for 9 weeks?

Wages for a day in Madhya Pradesh = ₹ 97

63

Wages for a day in Orissa = ₹ 75

$\times 22$

Difference in daily wages = $97 - 75 = ₹ 22$

126

Number of days in 9 weeks = $9 \times 7 = 63$

+ 1260

Difference in wages for 9 weeks = 63×22

$$= ₹ 1386$$

1386

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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 Rupee 1 every day 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?

Ans.

Satish's earning from 1 goat in 1 day = ₹ 1	510
Earning from 17 goats in 1 day = $1 \times 17 = ₹ 17$	$\times 12$
Hence, Satish's earning in one month = $17 \times 30 = ₹ 510$	1020
He does not get enough money to pay the loan per month.	$+ 5100$
Satish's earning in 1 year = $510 \times 12 = ₹ 6120$	6120

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 Rs17500. She had to pay Rs 5500 and the government spent the rest of the money.

1.How much did the government spend on the cow?

Ans. Cost of the cow = Rs17500

Money paid by Kamla Bai = Rs5500 \-

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Hence, money spent by the government = $17500 - 5500 = \text{Rs } 12000$

2.If 9 people from her village got cows, how much did the government spend in all?

Ans. Government spends Rs12000 for one cow Hence, for 9 cows the government spends $12000 \times 9 = \text{Rs } 108000$. But Kamla Bai was not happy. She had to spend Rs 85 every day on the cow. She made some money by selling the milk. But still she wanted to sell the cow.

3.If Kamla Bai spends Rs85 a day, find out how much she will spend in one month.

Ans. Money spent in one day = Rs85 Hence, money spent in one month = $85 \times 30 = \text{Rs } 2550$

4.The cow gives 8 litres of milk every day. How much will it give in one month?

Ans. Milk in 1 day – 8 litre Milk in one month = $8 \times 30 = 240 \text{ L}$

5.If the milk is sold at Rs 9 per litre, how much money will Kamla Bai make in one month?

Ans. Price of one litre milk = Rs 9

Hence, price of 240 L milk = $9 \times 240 = \text{Rs } 2160$

•So, the money spent on keeping the cow was ?

Ans. Rs 2550

•Money earned by selling the milk ?

Ans. Rs 2160

•Which is more money spent on the cow or money earned from it?

How much?

Ans. The money spent on cow is more than the money earned from it.

Difference = $2550 - 2160 = \text{Rs } 390$

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6.Explain why she wanted to sell the cow.

Ans. She is running into losses. Hence, she wants to sell the cow.

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Practice Time

(a) Sukhi works on a farm. He is paid Rs 98 for one day. If he works for 52 days, how much will he earn?

Ans.

(a) Sukhi works on a farm. He is paid ₹ 98 for one day. If he works for 52 days, how much will he earn?

Wages for one day = ₹ 98

Hence, wages for 52 days

$$= 98 \times 52$$

$$= ₹ 5096$$

98

× 52

196

+ 4900

5096

(b) Hariya took a loan to build his house. He has to pay back Rs 2,750 every month for two years. How much will he pay back in 2 years?

Ans. Amount of loan that is to be paid every month = Rs2750 Hence, loan to be paid in a year = 2750×12 = Rs 33000 Loan to be paid in 2 years = 33000×2 = Rs 66000

(c) Ratiram is a milk seller in the city. He sells 13 litres of milk everyday at Rs 23 per litre. How much does he earn?

Ans.

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Fun with Multiplication

(A) Look for the pattern and take this forward

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

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

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

$$(123 \times 9) + 4 = 1111$$

$$(1234 \times 9) + 5 = 11111$$

$$(12345 \times 9) + 6 = 111111$$

Ans. Number of 1 increases at every step in this pattern

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

$$\begin{array}{r} \text{aaa} \\ \times \text{aaa} \\ \hline \text{aaa} \\ \text{aaa0} \\ + \text{aaa00} \\ \hline \text{abcba} \end{array}$$

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

Ans. If $a=1$, then we have

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$$\begin{array}{r} 111 \\ \times 111 \\ \hline 111 \\ 1110 \\ + 11100 \\ \hline 12321 \end{array}$$

Hence, $b=2$ and $c = 3$

(C) Tricks with your age Write your age:

10 years Multiply it by 7:

$$7 \times 10 = 70$$

Again multiply the answer by 13:

$$70 \times 13 = 910$$

Multiply again that answer by 11:

$$910 \times 11 = 10010$$

1.Now look at your last answer. Can you find your age in that answer?

Ans. Yes, my age '10' occurs twice in the last answer.

2.Now try this trick with other people.

Ans. Let us take age = 9 years

Multiply by 7:

$$9 \times 7 = 63$$

Multiply by 13:

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$$63 \times 13 = 819$$

Multiply by 11:

$$819 \times 11 = 9009$$

The age '9' occurs twice in the last answer.

(D)Going round and round!

$$142857 \times 1 = 142857$$

$$142857 \times 2 = 285714$$

$$142857 \times 3 = 428571$$

$$142857 \times 4 = 571428$$

$$142857 \times 5 = 714285$$

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

Ans. Yes, we have some pattern each time take starting point 1 more than the previous, i.e. 1, 2, 4, 5, 7, etc.If we move clockwise we get the answer:

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Division

Dolma took a loan from a friend to buy a moped for ? 9588. She has to pay it back in equal amounts every month for six months.

1.How much will she have to pay every month? She asked her children to calculate. Her daughter did it this way

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$$\begin{array}{r}
 500 + 500 + 500 + 90 + 8 \\
 6 \overline{) 9588} \\
 \underline{- 3000} \\
 6588 \\
 \underline{- 3000} \\
 3588 \\
 \underline{- 3000} \\
 588 \\
 \underline{- 540} \\
 48 \\
 \underline{- 48} \\
 \hline
 X
 \end{array}$$

Her son started this way. Now you complete it.

$$\begin{array}{r}
 1000 + \\
 6 \overline{) 9588} \\
 \underline{- 6000} \\
 \underline{\quad} \\
 \underline{\quad} \\
 \underline{\quad} \\
 \underline{\quad}
 \end{array}$$

Let us complete the solution started by her son.

Ans.

$$\begin{array}{r} 1000 + 500 + 90 + 8 \\ 6 \sqrt{9588} \\ \underline{- 6000} \\ 3588 \\ \underline{- 3000} \\ 588 \\ \underline{- 540} \\ 48 \\ \underline{- 48} \\ X \end{array}$$

Daughter's answer = $500 + 500 + 500 + 90 + 8 = 1598$

Son's answer = $1000 + 500 + 90 + 8 = 1598$

Since both of them got the same answer; so she will have to pay ₹ 1598 every month for 6 months.

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Practice Time

Try to solve these using as few steps as you can

(a) $4228 + 4$

Ans.

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$$\begin{array}{r} 1000 + 50 + 7 \\ \hline 4 \overline{) 4228} \\ \underline{- 4000} \\ 228 \\ \underline{- 200} \\ 28 \\ \underline{- 28} \\ \hline \text{X} \end{array}$$

Hence, $4228 \div 4 = 1000 + 50 + 7 = 1057$

(b) $770 \div 22$

$$\begin{array}{r} 30 + 57 \\ \hline 22 \overline{) 770} \\ \underline{- 660} \\ 110 \\ \underline{- 110} \\ \hline \text{X} \end{array}$$

Hence, $770 \div 22 = 30 + 5 = 35$

(d) 672

$$\begin{array}{r} 30 + 2 \\ 21 \overline{) 672} \\ - 630 \\ \hline 42 \\ - 42 \\ \hline X \end{array}$$

Hence, $672 \div 21 = 30 + 2 = 32$

(e) $772 \div 7$

$$\begin{array}{r} 100 + 10 \\ 7 \overline{) 772} \\ - 700 \\ \hline 72 \\ - 70 \\ \hline 2 \end{array}$$

Hence, $772 \div 7 = 100 + 10 = 110$ (quotient) + 2 (remainder)

(f) $639 \div 13$

$$\begin{array}{r} 40 + 9 \\ 13 \overline{) 639} \\ - 520 \\ \hline 119 \\ - 117 \\ \hline 2 \end{array}$$

Hence, $639 \div 13 = 40 + 9 = 49$ (quotient) + 2 (remainder)

How Many Times?

976 children are going on a picnic. They will be taken in mini buses. If 25 children can go in one bus, how many buses do they need?

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1. Two children have solved it. Check if they have made a mistake, correct it.
Discuss

$$\begin{array}{r} 5 + 10 + 10 + 10 + 4 \\ \hline 25 \overline{) 976} \\ \underline{- 125} \\ 851 \\ \underline{- 250} \\ 601 \\ \underline{- 250} \\ 351 \\ \underline{- 250} \\ 101 \\ \underline{- 100} \\ \text{X} \end{array}$$

$$\begin{array}{r} 20 + 10 + 4 + 1 \\ \hline 25 \overline{) 976} \\ \underline{- 500} \\ 476 \\ \underline{- 250} \\ 226 \\ \underline{- 125} \\ 101 \\ \underline{- 100} \\ 1 \end{array}$$

Ans. In the first solution, the mistake is in remainder. The remainder should be 1 instead of zero.

In the second solution; the error is in third and fourth steps of division. The quotients in those steps should be 5 and 4 as shown below:

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$$\begin{array}{r}
 20 + 10 + 5 + 4 \\
 \hline
 25 \overline{) 976} \\
 \underline{- 500} \\
 476 \\
 \underline{- 250} \\
 226 \\
 \underline{- 125} \\
 101 \\
 \underline{- 100} \\
 1
 \end{array}$$

If one extra child can be accommodated in one of the buses then we need 39 buses.

Otherwise we need 40 buses. Since, taking 1 bus for 1 child is not possible so 39 buses will do.

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How Much Petrol?

1. Isha has Rs1000 with her. She wants to buy petrol. One litre of petrol costs Rs47. How many litres can she buy

$$\begin{array}{r}
 20 + 1 \\
 \hline
 47 \overline{) 1000} \\
 \underline{- 940} \\
 60 \\
 \underline{- 47} \\
 13
 \end{array}$$

Here, the quotient is 21 and remainder is 1
Hence, Isha can buy 21 litres of petrol.

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Find Out

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

Ans. At present the cost of petrol is 168 per litre in my city.

$$\begin{array}{r} 10 + 4 \\ 68 \overline{) 1000} \\ - 680 \\ \hline 320 \\ - 272 \\ \hline 48 \end{array}$$

Here, quotient is 14 and remainder is 48

Hence, she can buy 14 litres petrol.

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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.

Ira's way

$$\begin{array}{r} 100 + \\ 4 \overline{) 969} \\ - 400 \\ \hline \end{array}$$

Sreeni's way

$$\begin{array}{r} 200 + \\ 4 \overline{) 969} \\ \hline \end{array}$$

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1. Complete Iru's and Sreeni's way of division.

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Quotient = 242

Remainder = 1

Sreeni's division

$$\begin{array}{r} 200 + 40 + 2 \\ \hline 4 \overline{) 969} \\ \underline{- 800} \\ 169 \\ \underline{- 160} \\ 9 \\ \underline{- 8} \\ 1 \end{array}$$

Quotient = 242

Remainder = 1

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Practice Time

1.576 books are to be packed in boxes. If one box has 24 books, how many boxes' are needed?

Ans.

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$$\begin{array}{r} 20 + 4 \\ \hline 24 \overline{) 576} \\ - 480 \\ \hline 96 \\ - 96 \\ \hline X \end{array}$$

Quotient = 24

Hence, 24 boxes are needed.

2.836 people are watching a movie in a hall. If the hall has 44 rows, how many people can sit in one row?

Ans

Total number of people = 836

Total number of rows = 44

Hence, number of people in 1 row = $836 \div 44 = 19$

$$\begin{array}{r} 10 + 9 \\ \hline 44 \overline{) 836} \\ - 440 \\ \hline 396 \\ - 396 \\ \hline X \end{array}$$

3. 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?

Ans.

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Total number of trees in a row = 15

Hence, number of rows = $458 \div 15$

$$\begin{array}{r} 30 \\ 15 \overline{) 458} \\ \underline{- 450} \\ 8 \end{array}$$

Here, quotient = 30

Remainder = 8

So, 450 trees will be planted in 30 rows and 8 trees will be left.

Brain Teaser

4. 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?

Ans.

Total life of battery = 2000 hours

Number of hours in a day and night = 24

Number of days the battery lasts = $2000 \div 24$

$$\begin{array}{r} 80 + 3 \\ 24 \overline{) 2000} \\ \underline{- 1920} \\ 80 \\ 72 \\ \underline{} \\ 8 \end{array}$$

Here, quotient = 83 and remainder = 8

Since, $8/24 = 1/3$

So, the battery will last 83 days and $1/3$ day

More with Multiplication and Division

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1. 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?

Ans. Water in 1 tank = 300 L

So, water in 25 tanks = $300 \times 25 = 7500$ L

Now, Water in 1 tank = 15 buckets

So, water in 25 tanks = $25 \times 15 = 375$ buckets

2. 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?

Ans. Number of laddoos in 1 kg = 28

Hence, number of laddoos in 12 kg = $28 \times 12 = 336$ laddoos
Number of laddoos in 1 box = 16
Total number of laddoos = 336

Hence, number of boxes needed for 336 laddoos = $336 \div 16 = 21$
 $20 + 1 = 21$ boxes

3. 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 plants?

Ans. Water needed for 4 plants = $4 \times 2 = 8$ cups

Water needed for 26 rooms = $26 \times 8 = 208$ cups

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Make the Best Story Problem

Each line gives a story. You have to choose the question which makes the best story problem. The first one is already marked.

1. A shopkeeper has 50 boxes. There are 48 fruits in one box.

Tick the one question which matches with the given problem.

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- (a) How much will the shopkeeper pay in all?
- (b) How many fruits are there in all?
- (c) How many more boxes will he need?

Ans. (6) is the best choice

Option (a) is not a good choice because price is not given in the story

Option (c) is not a good choice because total number of boxes is given in the story.

2.352 children from a school went on a camping trip. Each tent had a group of 4 children.

- (a) How many children did each tent have?
- (b) How many tents do they need?
- (c) How many children in all are in the school?

Ans. (b) is the best choice

Option (a) is not a good choice because number of children for each tent is already given.

Option (c) is not a good choice because total number of children is already given.

3.A shopkeeper has 204 eggs. He puts them in egg trays. Each tray has 12 eggs.

- (a) How many more eggs will he needed?
- (b) How many fresh eggs does he sell?
- (c) How many egg trays does he need?

Ans. (c) is the best choice.

Option (a) is not a good choice because total number of eggs is already given. Option (b) is not a good choice because there is no data on number of fresh or spoiled eggs. .

4.The cost of one book is Rs47. Sonu buys 23 books.

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(a) How much moneybooks?

Ans. (b) is the best choice

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Practice Time

1. Do these divisions. Check your results by multiplication.

(a) 438

Quotient = 48 and remainder = 6

$48 \times 9 + 6 = 432 + 6 = 438$ Hence, verified

(b) $3480 \div 12$

$$\begin{array}{r} 200 + 90 \\ 12 \overline{) 3480} \\ \underline{- 2400} \\ 1080 \\ \underline{- 1080} \\ \text{X} \end{array}$$

Quotient = 290 $290 \times 12 = 3480$

$$\begin{array}{r} 290 \\ \times 12 \\ \hline 580 \\ + 2900 \\ \hline 3480 \end{array}$$

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Verified

(c) $450 \div 7$

$$\begin{array}{r} 60 + 4 \\ 7 \overline{) 450} \\ \underline{- 420} \\ 30 \\ \underline{- 28} \\ 2 \end{array}$$

Quotient = 64 and remainder = 2 $64 \times 7 + 2 = 448 + 2 = 450$ verified

(d) $900 \div 10$

$$\begin{array}{r} 90 \\ 10 \overline{) 900} \\ \underline{- 900} \\ X \end{array}$$

Quotient = 90

$90 \times 10 = 900$ verified

(e) $678 \div 6$

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$$\begin{array}{r} 100 + 10 + 3 \\ \hline 6 \overline{) 678} \\ \underline{- 600} \\ 78 \\ \underline{- 60} \\ 18 \\ \underline{- 18} \\ \hline \text{X} \end{array}$$

Quotient = 113 $113 \times 6 = 678$ verified

(f) $2475 \div 11$

$$\begin{array}{r} 200 + 20 + 5 \\ \hline 11 \overline{) 2475} \\ \underline{- 2200} \\ 275 \\ \underline{- 220} \\ 55 \\ \underline{- 55} \\ \hline \text{X} \end{array}$$

Quotient = 225 $225 \times 11 = 2475$

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$$\begin{array}{r} 225 \\ \times 11 \\ \hline 225 \\ + 2250 \\ \hline 2475 \end{array}$$

Verified.

1.Solve the given sums and colour the answers in the grid given below. See what you find.

(a) $21 \times 16 = 336$

Ans.

$$\begin{array}{r} 21 \\ \times 16 \\ \hline 126 \\ + 210 \\ \hline 336 \end{array}$$

(b) $15 \times 7 = 105$

(c) $93 \times 2 = 186$

(d) $17 \times 5 = 85$

(e) $10 \times 10 = 100$

(f) $26 \times 26 = 676$

Ans.

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$$\begin{array}{r} 26 \\ \times 26 \\ \hline 156 \\ + 520 \\ \hline 676 \end{array}$$

(g) $77 \times 10 = 770$

(h) $50 \times 10 = 500$

(i) $11 \times 11 = 121$

Ans.

$$\begin{array}{r} 11 \\ \times 11 \\ \hline 11 \\ + 110 \\ \hline 121 \end{array}$$

(j) $59 \times 7 = 413$

(k) $31 \times 19 = 589$

Ans.

$$\begin{array}{r} 31 \\ \times 19 \\ \hline 279 \\ + 310 \\ \hline 589 \end{array}$$

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(l) $85 \times 30 = 2550$

(m) $64 \times 42 = 2688$

Ans.

$$\begin{array}{r} 20 + 4 \\ \hline 24 \overline{) 576} \\ \underline{- 480} \\ 96 \\ \underline{- 96} \\ \hline X \end{array}$$

Quotient = 24

Hence, 24 boxes are needed.

(n) $3200 \div 40 = 80$

(o) $19 \times 3 = 57$

(p) $248 \div 8 = 31$

Ans.

$$\begin{array}{r} 30 + 1 \\ \hline 8 \overline{) 248} \\ \underline{- 240} \\ 8 \\ \underline{- 8} \\ \hline X \end{array}$$

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(q) $432 \div 18 = 24$

Ans.

$$\begin{array}{r} 20 + 4 \\ 18 \overline{) 432} \\ \underline{- 360} \\ 72 \\ \underline{- 72} \\ \hline X \end{array}$$

(r) $729 \div 9 = 81$

(s) $825 \div 5 = 165$

(t) $221 \div 13 = 17$

Ans.

$$\begin{array}{r} 10 + 7 \\ 13 \overline{) 221} \\ \underline{- 130} \\ 91 \\ \underline{- 91} \\ \hline X \end{array}$$

(u) $576 \div 12 = 48$

Ans.

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$$\begin{array}{r} 20 + 4 \\ \hline 24 \overline{) 576} \\ - 480 \\ \hline 96 \\ - 96 \\ \hline X \end{array}$$

Quotient = 24

Hence, 24 boxes are needed.

(v) $288 \div 4 = 72$

Ans.

$$\begin{array}{r} 70 + 2 \\ 4 \overline{) 288} \\ - 280 \\ \hline 8 \\ - 8 \\ \hline X \end{array}$$

(w) $869 \div 11 = 79$

Ans.

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$$\begin{array}{r} 70 + 9 \\ 11 \overline{) 869} \\ \underline{- 770} \\ 99 \\ \underline{- 99} \\ X \end{array}$$

(x) $847 \div 7 = 121$

Ans.

$$\begin{array}{r} 100 + 20 + 1 \\ 7 \overline{) 847} \\ \underline{- 700} \\ 147 \\ \underline{- 140} \\ 7 \\ \underline{- 7} \\ X \end{array}$$

(y) $981 \div 3 = 327$

Ans.

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$$\begin{array}{r} 300 + 20 + 7 \\ \hline 3 \overline{) 981} \\ \underline{- 900} \\ 81 \\ \underline{- 60} \\ 21 \\ \underline{- 21} \\ \text{X} \end{array}$$

(z) $475 \div 19 = 25$

Ans.

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$$\begin{array}{r}
 20 + 5 \\
 19 \overline{) 475} \\
 \underline{- 380} \\
 95 \\
 \underline{- 95} \\
 X
 \end{array}$$

545	110	434	642	709	623	919	341	72	168
984	165	561	608	236	413	529	62	259	905
709	907	367	632	336	121	492	178	431	475
165	806	584	186	100	589	72	717	248	676
624	80	105	24	165	17	85	770	126	500
247	997	485	2688	81	80	48	901	327	121
742	427	756	531	79	2550	347	1001	314	57
945	1000	687	854	1200	999	24	3126	918	53
109	799	845	1999	864	955	123	1234	678	56
549	459	614	1864	834	559	900	1111	268	171

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- Chapter 1: The fish Tale
- Chapter 2: Shapes and Angles
- Chapter 3: How Many Squares?
- Chapter 4: Parts and Wholes
- Chapter 5: Does it Look the Same?
- Chapter 6: Be My Multiple, I'll be Your Factor
- Chapter 7: Can You See the Pattern?
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- Chapter 10: Tenths and Hundredths
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- Chapter 13: Ways to Multiply and Divide
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