

Now Bhanu tried to find the salary of a minister for the month of


## 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 Rs 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?

| 165 |  |
| ---: | :--- |
| $\times 365$ |  |
| --- | $(165 \times 5)$ |
| ---- | $(165 \times 60)$ |
| +49500 | $(165 \times 300)$ |

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

## Years and Years

a) Sohan drinks 8 glasses of water every day.

* How many glasses will he drink in one month? $\qquad$
\% 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.

c) A baby elephant drinks around 12 L of milk every day. How much milk will it drink 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 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.


* Find the area of all the three fields.

Field (A) $\qquad$ square metre.

Field (B) $\qquad$ square metre.

Field (C) $\qquad$ square metre.

Hum, did he spend more than a lakh of rupees!

He bought field (A) at the rate of Rs 95 for a square metre, field (B) at Rs 110 for a square metre and field (C) at Rs 120 for a square metre.

* Find the cost of all three fields.


Thulasi and her husband work on Karunya's farm. The Government has said that farm workers 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? $\qquad$
If her husband works for 42 days, how much money does he get? $\qquad$
Find the money they earn together $\qquad$

Oh! He does not give them the minimum wage?


And why does he pay less to Thulasi and more to her husband? Discuss.


| I saw this in the newspaper. |
| :--- |
| Governments of different states |
| said that farmworkers should not b |
| less than this salary for a day's w |
| State Salary for one |
| Haryana |
| Rajasthan |
| Madhya Pradesh 135 |
| Orissa |

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 $2^{1 / 2}$ 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)



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

Find out - how much do you pay for 1 litre of milk?

So the money spent on keeping the cow was Rs Money earned by selling the milk Rs

Which is more - money spent on the cow or money earned from it? How much?

Explain why she wanted to sell the cow.

## 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?
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?
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?
d) A farmer sells 1 litre of milk for Rs 11. In one month he sells 210 litres of milk. How much does he earn in a month?
e) A company sells 1 litre of packed water for Rs 12. A shopkeeper buys 240 litres of packed water. How much does he pay?


Oh God! Water costs more than milk!! In the city people buy water for Rs 12 per litre!


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.

| aaa |
| ---: |
| $\times a a a$ |
| aaa |
| aaa |
| abcba |

Take $\mathrm{a}=1$, then find what the numbers $b$ and $c$ will be.
C) Tricks with your age.

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Write your age $\qquad$
Multiply it by 7 $\qquad$
Again multiply the answer by 13
Multiply again that answer by 11 $\qquad$
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.



## Division

Dolma took a loan from a friend to buy a moped for Rs 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 Rs 1000 with her. She wants to buy petrol. One litre of petrol costs Rs 47. How many litres can she buy?
Money with Isha $=$ Rs 1000
Cost of 1litre $=$ Rs 47
Litres of petrol she can buy $=$ Rs $1000 \div$ Rs $47=$ ?
Isha can buy $\qquad$ litres of petrol.

## 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?



## 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.

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?

Explain why (a) and (c) are not good choices.

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?
3) A shopkeeper has 204 eggs. He puts them in egg trays. Each tray has 12 eggs.
a) How many more eggs will he need?
b) How many fresh eggs does he sell?
c) How many egg trays does he need?


Such exercises will help children understand the strategies to make questions related to the concepts of division and multiplication.
4) The cost of one book is Rs 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 Rs 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 $2456 \div 4=$ Rs 624 .

When Harisharan started giving Rs 624 to each son, he was left with less money for the youngest one.


It seems you have made some mistake in the calculations. Let me check.

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

Hum! This shows you have done the division wrong.

The son did the division again $2456 \div 4=614$.
Before telling his father he checked on his own.
$614 \times 4=2456$. Now, it is correct. Each one will get Rs 614 .

## Practice Time

1) Do these divisions. Check your results by multiplication.
a) $438 \div 9$
b) $3480 \div 12$
c) $450 \div 7$
d) $900 \div 10$
e) $678 \div 6$
f) $2475 \div 11$

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

