



Y8XKEQ

Heera's father does the work of making candles. His family helps him in this work. Heera which were ready to be packed as 1,2,3,4,5,6 , 8650.

He has to make packets of 20 candles each.

Can you tell, total how many packets of candles are made ?

Let's find - $8650 \div 20$

$$\begin{array}{r}
 432 \\
 20 \overline{) 8650} \\
 \underline{-80} \\
 65 \\
 \underline{-60} \\
 50 \\
 \underline{-40} \\
 10
 \end{array}$$

Quotient = 432

Remainder = 10

Thus, total number of packets of 20 candles each = 432

Number of remaining candles = 10

Check the answer X + =



Do it yourself -

● $63728 \div 12$

● $57345 \div 15$

● $21280 \div 40$



Heera delivers 26542 candles to 115 shopkeepers in equal quantity. Find out the number of candles each shopkeeper got and the number of candles left with Heera.

Look- $26542 \div 115$

$$\begin{array}{r}
 230 \\
 115 \overline{) 26542} \\
 \underline{-230} \\
 354 \\
 \underline{-345} \\
 92 \\
 \underline{-00} \\
 92
 \end{array}$$

- Here, we divide the extreme left digit of dividend 26542 i.e. 2 with extreme left digit of divisor 115 i.e. 1.

$$\begin{array}{r}
 1) 2 \ (2 \\
 \underline{-2} \\
 0
 \end{array}$$
 By this, we can guess that dividend will be divided 2 times by the divisor.
- On dividing 2 times we get 35 as a remainder which is less than the divisor (115). So we will take down the digit 4 of dividend and write it with the remainder 35.
- Again, we divide the extreme left digit of remainder 354 i.e. 3 with the extreme left digit of divisor i.e. 1.

$$\begin{array}{r}
 1) 3 \ (3 \\
 \underline{-3} \\
 0
 \end{array}$$

We can guess that dividend will be divided 3 times by the divisor.

- On dividing, we get remainder 9, which is less than divisor. So, we take down digit 2 of dividend and write it with the remainder 9. In this way the remainder becomes 92. But it is still smaller than the divisor. So, it will be divided zero times. Hence, the remaining 92 is the final remainder.

Check the answerX+..... = 26542



Do it yourself -

● $573284 \div 108$

● $639540 \div 150$

● $732954 \div 125$



Can we solve $3785291 \div 230$ in the same way ?

Let's do -

$$\begin{array}{r}
 16457 \\
 230 \overline{) 3785291} \\
 \underline{-230} \\
 1485 \\
 \underline{-1380} \\
 1052 \\
 \underline{-920} \\
 1329 \\
 \underline{1150} \\
 1791
 \end{array}$$

Quotient = 16457

Remainder = 181

Check the answerx.....+.....=.....



Do it yourself -

● $45526 \div 221$

● $575886 \div 123$

● $876954 \div 155$

● $1459876 \div 254$

Look and Understand -

A petrol tanker containing 25500 litres of petrol was brought for some purpose. Out of this 5500 litres of petrol is filled in drums. The remaining petrol was filled, 40 litres each in some vehicles. Find the total number of vehicle filled with petrol.



Total quantity of petrol in the tanker = 25500 litres

Quantity of petrol filled in the drums = 5500 litres

Thus, remaining quantity of petrol = $25500 - 5500$
= 20000 litres

Quantity of petrol filled in each vehicle = 40 litres

Therefore, total number of vehicle that were filled with petrol = $20000 \div 40$

$$\begin{array}{r} 500 \\ 40 \overline{) 20000} \\ \underline{-2000} \\ 000 \\ \underline{-000} \\ 000 \\ \underline{-000} \\ 000 \end{array}$$

Quotient = 500
Remainder = 0

Therefore, 500 vehicles were filled with the remaining petrol.

Check the answerx.....+.....=.....



Do it yourself -

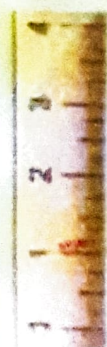
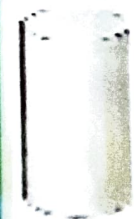
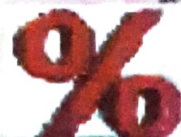
- In Sanjay's garden there are 3 mango trees. He plucked 3450 mangoes from the first tree, 4320 mangoes from the second tree and 4280 mangoes from the third tree. If he makes packets of 50 mangoes each, in all how many packets will be prepared?

We have learnt

- To divide and find the quotient and the remainder.
- To identify and solve the word problems of division.



Exercise



1. Write the quotient and the remainder-

(a) $785416 \div 205$ (b) $9288646 \div 484$ (c) $5846321 \div 783$

(d) $685432 \div 376$ (e) $78526905 \div 315$ (f) $84370253 \div 610$

2. A box can contain 144 apples. Raman has 74160 apples. How many boxes will be needed to pack these apples?



3. Find the dividend if divisor is 483, quotient is 403 and remainder is 50.

4. A farmer has 7855 kg of rice. He keeps the rice in 102 sacks in equal quantity. What will be the weight of rice kept in each sack and the weight of the remaining quantity of rice?



5. What will be the quotient when the successor of 6499 is divided by 13?

6. Divide the difference of the greatest and the smallest eight digit number by the greatest three digit number and find the quotient and the remainder.

7. An auditorium has 1600 seats. There are total 65 rows of seats in the auditorium, out of which 5 rows have 20 seats each and the remaining rows have equal number of seats. What will be the number of seats in each of the remaining rows?

