

Division



Fill in the blanks.:

- The number by which we divide is called divisor.
- A number that is left after division is called remainder.
- The result in division after dividing the dividend with the divisor is called quotient.
- The number which is to be divided is called dividend.

II. Do as directed.

Solve the long division method

a. $6048 \div 9$

b. $1344 \div 8$

a. $6048 \div 9$

$Q=672, R=0$

$$\begin{array}{r}
 672 \rightarrow Q \\
 9 \overline{)6048} \\
 \underline{-54} \\
 64 \\
 \underline{-63} \\
 18 \\
 \underline{-18} \\
 0 \rightarrow R
 \end{array}$$

b. $1344 \div 8$

$Q=168, R=0$

$$\begin{array}{r}
 168 \rightarrow Q \\
 8 \overline{)1344} \\
 \underline{-8} \\
 414 \\
 \underline{-54} \\
 48 \\
 \underline{-48} \\
 64 \\
 \underline{-64} \\
 0 \rightarrow R
 \end{array}$$

B. Divide the following.

a. $891 \div 17$ $Q = 52, R = 7$

<u>52</u> → Q	
<u>17</u> 891	3
- 85 ↓	17
311	x 5
- 41	<u>85</u>
- 34	17
7 → R	x 2
	<u>34</u>

b. $758 \div 23$ $Q = 32, R = 22$

<u>32</u> → Q	
<u>23</u> 758	23
- 69 ↓	x 3
68	<u>69</u>
- 46	23
22 → R	x 2
	<u>46</u>

C. Divide the following:

a.

$$\begin{array}{r}
 246 \rightarrow Q \\
 \underline{32} \overline{) 7891} \\
 \underline{-64} \\
 149 \\
 \underline{-128} \\
 11011 \\
 \underline{-111} \\
 192 \\
 \underline{-19} \\
 19 \rightarrow R
 \end{array}$$

$$\begin{array}{r}
 32 \\
 \times 2 \\
 \hline
 64 \\
 \times 6 \\
 \hline
 192 \\
 \times 4 \\
 \hline
 128
 \end{array}$$

b.

$$\begin{array}{r}
 376 \rightarrow Q \quad 1 \\
 \underline{14} \overline{) 5268} \\
 \underline{-42} \\
 0916 \\
 \underline{-98} \\
 88 \\
 \underline{-84} \\
 4 \rightarrow R \quad 14 \\
 \times 6 \\
 \hline
 84
 \end{array}$$

$$\begin{array}{r}
 14 \\
 \times 3 \\
 \hline
 42 \\
 2 \\
 14 \\
 \times 7 \\
 \hline
 98 \\
 2 \\
 14 \\
 \times 6 \\
 \hline
 84
 \end{array}$$

D. Story sums:

1. How many days are there in 2280 hours?

Ans - Total hours = 2280

Hours in one day = 24

No. of days in 2280 hours =

$$2280 \div 24 = 95 \text{ days.}$$

$$\begin{array}{r} 95 \rightarrow Q \\ \underline{24} \overline{) 2280} \\ \underline{21} \\ 18 \\ \underline{16} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \\ 24 \\ \times 9 \\ \hline 216 \end{array}$$

$$\begin{array}{r} 2 \\ \underline{24} \\ \times 5 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 2 \\ 24 \\ \times 5 \\ \hline 120 \end{array}$$

∴ There are 95 days in 2280 hours.

2. In an auditorium there are 5048 chairs to seat. These chairs are arranged in 42 rows equally. How many chairs are there in each row?

Ans- No. of chairs to seat = 5048

No. of rows = 42

No. of chairs in each row =

$$5048 \div 42 = 120 \text{ chairs}$$

$\begin{array}{r} 120 \rightarrow Q \\ \hline 42 \overline{) 5048} \\ \underline{-42} \\ 84 \\ \underline{-84} \\ 08 \\ \underline{-0} \\ 8 \rightarrow R \end{array}$	$\begin{array}{r} 42 \\ \times 1 \\ \hline 42 \\ \\ 42 \\ \times 2 \\ \hline 84 \end{array}$
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∴ There are 120 chairs in each

row.