



TOPIC-DIVISION

NAME - _____ CLASS IV/ SEC ____ DATE -05/10/2020 - 09/10/2020

Learning outcomes: -

Each child will be able to-

- a) identify the pattern of division by 10,100 and 1000 and solve it orally also.
- b) attempt division by 1-digit number based on the previous knowledge.
- c) verify their answer of division correctly by applying the given formula.

DIVISION BY 10,100 AND 1000

$7596 \div 10$ (One zero) = 759 and 6(Only 1 last digit) So, Q= 759, R = 6

$7596 \div 100$ (2 zeroes) = 75 and 96(Last 2 digits) So, Q = 75, R = 96

$7596 \div 1000$ (3 zeroes) = 7 and 596(Last 3 digits) So, Q= 7, R= 596

We observe, whenever we divide any number by 10, 100 or 1000 , the digits equal to the number of zero/es in the divisor becomes the Remainder and rest of the number left in the dividend becomes the Quotient.

Q1. Find the number of digits in the quotient and remainder. (To be done in the notebook).

Question	Number of digits in Quotient	Number of digits in remainder
a) $543 \div 10$		
b) $3098 \div 100$		
c) $2178 \div 1000$		
d) $98061 \div 100$		
e) $7462 \div 1000$		
f) $4715 \div 10$		

Q2. Fill in the blanks: - (To be done in the notebook).

	Quotient	Remainder
a) $3412 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$	<u> </u>	<u> </u>
b) $5098 \div \underline{\hspace{2cm}} = 5$	<u> </u>	<u> </u>
c) $\underline{\hspace{2cm}} \div 100 = 45$	24	
d) $\underline{\hspace{2cm}} \div 1000 = 9$	981	
e) $44600 \div \underline{\hspace{2cm}} = 44$	<u> </u>	<u> </u>

<https://www.iknowit.com/lessons/e-multiplying-and-dividing-whole-numbers-by-10-100-1000.html>

Students, by clicking on this link you will be able to attempt a quiz based on the above given concept and check your progress.

RELATION BETWEEN DIVIDEND, DIVISOR, QUOTIENT AND REMAINDER

Let's understand this with the help of the given example-

$$\begin{array}{r} \text{divisor} \longrightarrow 5 \overline{) 1723} \\ \underline{-15} \\ 22 \\ \underline{-20} \\ 23 \\ \underline{-20} \\ \text{remainder} \longrightarrow 3 \end{array} \quad \longleftarrow \text{quotient}$$

$$\begin{array}{r}
 22 \\
 344 \quad \text{Quotient} \\
 \times 5 \quad \text{X Divisor} \\
 \hline
 1720 \\
 + 3 \quad \text{+ Remainder} \\
 \hline
 1723 \quad = \text{Dividend}
 \end{array}$$

We observe that , **Dividend = Quotient X Divisor + Remainder**

The above relation is also used to verify the result of Division. So, we also call it as formula of CHECKING / VERIFICATION of Division.

Q3. Divide and check your answers:- (To be done in the notebook).

a) $9435 \div 4$

b) $1028 \div 8$

c) $6783 \div 9$

Dear students, Let's now recapitulate the given concepts through the help of this video.

<https://youtu.be/5W0G6DkV-kQ>

Students, now you can play this game and enjoy.

DIVISION GAME

Choose a number from each of the rows below and work out the division fact.

120	320	240	360	280	200	270	420
20	30	4	5	60	70	8	9

Four in a line wins!

4	60	40	30	50	90
10	2	50	70	4	80
30	7	40	9	10	6
4	50	8	30	7	40
9	6	20	60	8	30
40	2	50	7	5	80