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Natural numbers (1).

Exercise 1.

How many natural numbers are less than 201 and divisible by:

a) 5

1° I perform the division $201 : 5$

$$\begin{array}{r} 40 \\ 201 : 5 \\ -20 \\ \hline 01 \rightarrow \text{remainder} \end{array}$$

2° I can write the number 201 as:

$$201 = 5 \cdot 40 + 1$$

there are 41 numbers (including zero) divisible by 5 and less than 201.

b) 8

1° I perform the division $201 : 8$

$$\begin{array}{r} 25 \\ 201 : 8 \\ -16 \\ \hline 41 \\ -40 \\ \hline 1 \rightarrow \text{remainder} \end{array}$$

2° I can write the number 201 as:

$$201 = 8 \cdot 25 + 1$$

there are 26 numbers (including zero) divisible by 8 and less than 201

c) 9

1° I perform the division $201 : 9$

$$\begin{array}{r} 22 \\ 201 : 9 \\ -18 \\ \hline 21 \\ -18 \\ \hline 3 \rightarrow \text{remainder} \end{array}$$

2° I can write the number 201 as:

$$201 = 9 \cdot 22 + 3$$

there are 23 numbers (including zero) divisible by 9 and less than 201

d) 11

1° I perform the division $201 : 11$

$$\begin{array}{r} 18 \\ 201 : 11 \\ -11 \\ \hline 91 \\ -88 \\ \hline 3 \rightarrow \text{remainder} \end{array}$$

2° I can write the number 201 as:

$$201 = 11 \cdot 18 + 3$$

there are 19 numbers (including zero)

divisible by 11 and less than 201