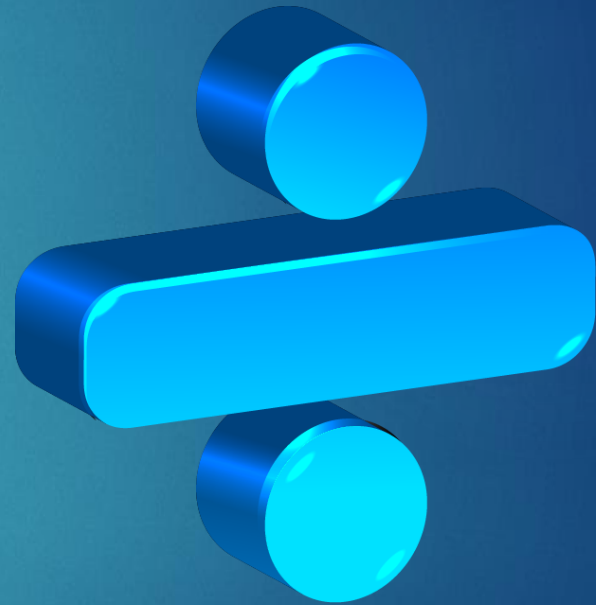


Division



What is ti?

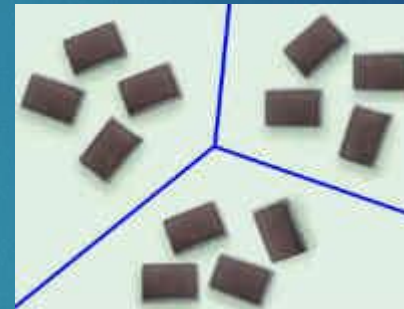
- ▶ Division is splitting into equal parts or groups an amount.
- ▶ It is the result of "fair sharing" because when you divide you separate into small groups that have the same number of parts or objects.

Example:

There are 12 chocolates, and 3 friends want to share them, how do they divide the chocolates?



12 Chocolates		12 Chocolates Divided by 3



Symbols

When you have to divide, you might find some of these symbols:

÷ or /

Both symbols indicate that you need to divide:

$$12 \div 3 = 4$$

$$12 / 3 = 4$$

How do you read divisions?

Using **divided by**.

Example:

25/5: Twenty-five **divided by** five

37 ÷ 12: Thirty-seven **divided by**
twelve

Parts of the division

A diagram illustrating the parts of a division problem. The division is shown as $3 \overline{)16}$ with a remainder of 1. The labels and their corresponding parts are:

- quotient \rightarrow 5
- divisor \rightarrow 3
- dividend \nearrow 16
- remainder \rightarrow 1

The diagram shows the division of 16 by 3. The quotient is 5, the divisor is 3, the dividend is 16, and the remainder is 1. The labels are connected to the corresponding parts of the division by arrows.

Divide:

$$\begin{array}{r} 3 \overline{) 75} \\ \underline{0} \\ 75 \end{array}$$

3 goes into 7
2 times...
with some extra!

Multiply:

$$\begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{6} \end{array} \quad 2 \times 3 = 6$$

Subtract:

$$\begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{-6} \\ \hline 1 \end{array}$$

Bring Down:

$$\begin{array}{r} 2 \\ 3 \overline{) 75} \\ \underline{-6} \\ \hline 15 \end{array}$$

Long Division:

Divide:

Does

$$\begin{array}{r} 2 \\ 3 \overline{)76} \end{array}$$

3 goes into 7
2 times...
(with some extra)

Multiply:

McDonalds

$$\begin{array}{r} 2 \\ 3 \overline{)76} \\ \underline{60} \end{array}$$

$$2 \times 3 = 6$$

$$(20 \times 3) = 60$$

Subtract:

Serve

$$\begin{array}{r} 2 \\ 3 \overline{)76} \\ \underline{-60} \\ 16 \end{array}$$

60 items divided

$$76 - 60 = 16$$

Bring Down:

Burgers

16 items left to divide

Repeat:

$$\begin{array}{r} 25 \\ 3 \overline{)76} \\ \underline{-60} \\ 16 \\ \underline{-15} \end{array}$$

R1

$16 \div 3$
How many 3s in 16?

$$5 \times 3 = 15$$

Now... Time to practice

$$9 \overline{)54}$$

$$5 \overline{)5}$$

$$3 \overline{)23}$$

$$7 \overline{)21}$$

$$5 \overline{)32}$$

$$8 \overline{)54}$$

$$2 \overline{)12}$$

$$8 \overline{)16}$$

$$3 \overline{)244}$$

$$3 \overline{)280}$$

$$8 \overline{)500}$$

$$5 \overline{)433}$$

$$4 \overline{)125}$$

$$4 \overline{)206}$$

$$5 \overline{)139}$$

$$5 \overline{)201}$$

Now, it's your turn Solve:

$$4 \overline{) 25}$$

$$2 \overline{) 118}$$

$$3 \overline{) 121}$$

$$4 \overline{) 20}$$

$$6 \overline{) 342}$$

$$9 \overline{) 330}$$

$$5 \overline{) 24}$$

$$7 \overline{) 421}$$

$$6 \overline{) 130}$$

$$2 \overline{) 22}$$

$$3 \overline{) 65}$$

$$6 \overline{) 79}$$

$$8 \overline{) 56}$$

$$2 \overline{) 47}$$

$$7 \overline{) 66}$$

$$4 \overline{) 35}$$

$$4 \overline{) 326}$$

$$3 \overline{) 154}$$

$$8 \overline{) 232}$$

$$6 \overline{) 140}$$