

Topic 4: Division

Dividend: the number to be divided

$$96 \div 12 = 8$$

Divisor: the number used to divide another number

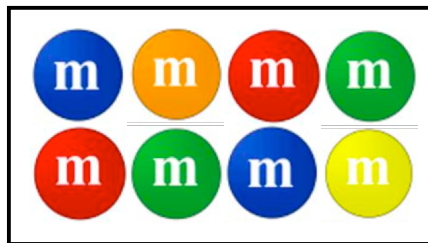
$$96 \div 12 = 8$$

Quotient: the answer to a division problem

$$96 \div 12 = 8$$

We use *division* when we have a certain number of things that we want to share equally.

Example: There are 8 M&Ms for Alyssa and Matt to share. How many M&Ms do they each get? (Draw them in their boxes)



Alyssa

Matt



How do we write this as a division problem?

8	÷	2	=	4
Total number of things		Number of equal groups		Amount in each group

4.1 Dividing Multiples of 10 and 100

Remember: when you divide, the dividend must always be larger than the divisor

$$\cancel{6 \div 32}$$

Five friends want to share 1,000 comic books equally. How many does each friend get?

Dividend		Divisor		
1,000	÷	5	=	?
Total number of things (comic books)		Number of equal groups (friends)		Amount in each group

First, let's get rid of the comma to make it easier for us (we'll add it back later).

Now, let's start crossing out zeros until we get a smaller number but a number that is still larger than the divisor.

Dividend		Divisor		
1000	÷	5	=	?
Comic Books		Number of friends		Number of Comic books for each friend

Now, we're left with

	÷		=	
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OR

10 comic books between five friends

Draw tally marks to show how many comic books each friend gets. Start by giving friend 1 a comic book, then give one to friend two, ... If you give one to each friend and still have more left over, start by giving friend one another one and continuing on.

Friend 1	Friend 2	Friend 3	Friend 4	Friend 5

How many comic books does each friend get? _____

Now lets add back the zeros we took away, what's our new answer? _____ (Fill in the yellow square)

Dividend		Divisor			
1000	÷	5	=		
Comic Books		Number of friends			Number of Comic books for each friend