

# Welcome!

## Year Three: The Four Operations

with

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# Year 3: The Four Operations

True or  
False?

A quick quiz based on common  
misconceptions and key  
vocabulary!



# Year 3: The Four Operations

True or **False?**

product →  $3 \times 8 = 24$  ← factor

product ↑

Factors are numbers we can multiply together to get another number. A product is the answer when two or more values are multiplied together!



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True or **False?**

652

The value of the underlined digit is 5.

The value of the underlined digit is 50, as that is what the 5 represents!





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**True** or **False**?

Commutative law means that  
if  $26 + 32 = 58$ , then  
 $32 + 26 = 58$ .

Commutative law  
says you can swap  
numbers around and still  
get the same answer  
when you add. You can  
also use this law for  
multiplication!



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True or False?

dividend →  $24 \div 4 = 6$  ← quotient

divisor

$$\begin{array}{r} 6 \leftarrow \text{quotient} \\ 4 \overline{) 24} \leftarrow \text{dividend} \\ \uparrow \\ \text{divisor} \end{array}$$



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True or **False?**

$$\begin{array}{r} 256 \\ + 173 \\ \hline 429 \\ \hline 1 \end{array}$$

This person has forgotten to regroup their tens into their hundreds!  
This is how it should have been done...



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**True** or **False**?

Associative law means that  
 $5 \times 2 \times 4$  is the same as  
 $2 \times 5 \times 4$ .

Associative law means that, when we multiply three or more numbers, it doesn't matter how we group them or what order we put them in!





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True or **False?**

This fact family is correct:

$$5 \times 7 = 35$$

$$7 \times 5 = 35$$

$$7 \div 5 = 35$$

$$35 \div 5 = 7$$

A fact family consists of four number sentences, using the same three numbers. It will either be two additions and two subtractions, or two multiplications and two divisions.



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Let's take a closer look at  
those four operations...



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## Column Addition

$$\begin{array}{r} 284 \\ + 353 \\ \hline 637 \\ \hline 1 \end{array}$$

Then, we need to add the tens.  
If there are more than ten, we need to have  
First, we need to add the ones.  
hundreds and carry the extra  
When we add the tens, the extra  
digit at the bottom.



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## Column Subtraction

$$\begin{array}{r} 5 \\ 761 \\ - 543 \\ \hline 218 \end{array}$$

First, we need to subtract the ones.  
Then we need to subtract the tens.  
Don't forget your new tens digit!  
Don't forget to cross out the tens digit and write the new digit.





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## Short Multiplication

$$\begin{array}{r} 2 \\ \times 14 \\ \hline 98 \end{array}$$

After that we need to multiply the  
First, we need to multiply the  
tens and forget the tens digit  
ones.  
our digit column.



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## Bus Stop Division

$$\begin{array}{r} 143 \\ 3 \overline{)429} \end{array}$$

This is the only one of the four operations in which we start in our hundreds column. After that, we need to find out how many of our divisor goes into the many of our divisor goes into the hundreds! First, we must figure out how many of our divisor goes into the ones.



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Thank you for listening!

Does anyone have any  
questions?

