Name: ______ Period: _____ Date: _____

Factors and Multiples

Assignment Math 4

Let's look at factors and multiples in an equation.

What is a factor?

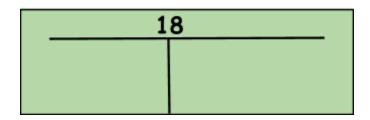
-The numbers that are multiplied to get a given number.

Factors of 16 are 1, 2, 4, 8, 16

- The first factor of every number greater than 0 is 1.
- Factors never go beyond the number you are finding factors for.

Let's try... Find all the factors of 18 Ask yourself...

What factors can I multiply together to get 18?

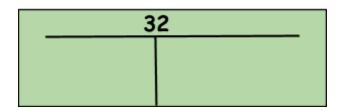


Factors of 18 are _____

Let's try... Find all the factors of 32

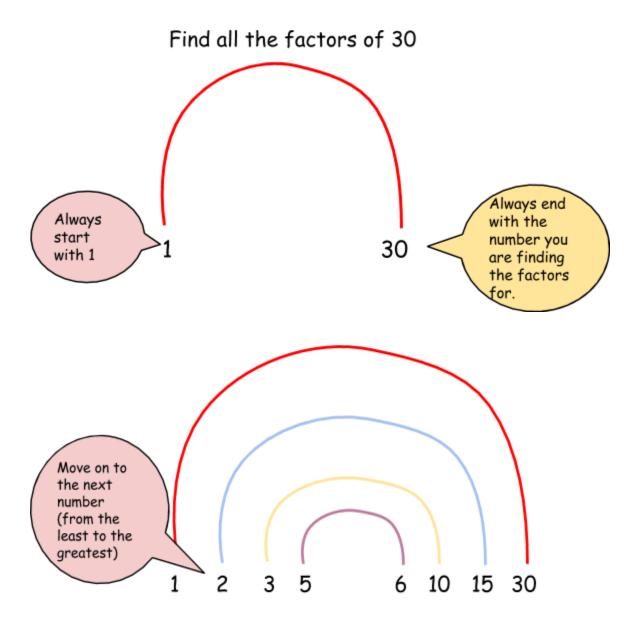
Ask yourself...

What factors can I multiply together to get 32?



Factors of 32 are

You can draw a Factor Rainbow to find all the factors!

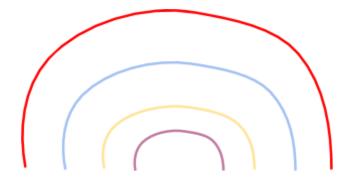


Factors of 30 are 1,2,3,5,6,10,15,30

Let's try...

Find all the factors of 48

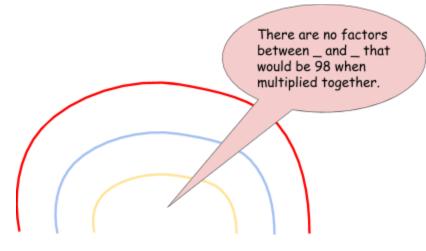
Let's draw a factor rainbow.



Factors of 48 are

Let's try... Find all the factors of 98

Let's draw a factor rainbow.



Factors of 98 are _____

What is a <u>multiple</u>?

-The product of a given number and another factor multiplied

together. $4 \times 1 = 4$

For example... 4x2=8

4x3=12 What is multiples of 4?

4x4=16

4x5 = 20

All of these are multiples of for and you can keep going on and on!

- There is no limit to the number of multiples a number can have.
- The first multiple of every number greater than zero is the number you are finding multiples for.

Let's try..

Find all the first 6 multiples of 6

Think this way... Multiple = Product. Keep multiplying until

The first 6 multiples of 6 are ___

Name: ______ Period: _____ Date: _____

Factors and Multiples Assignment Math 4

Let's try...

What are the first 6 multiples of 10?

The first 6 multiples of 10 are _____

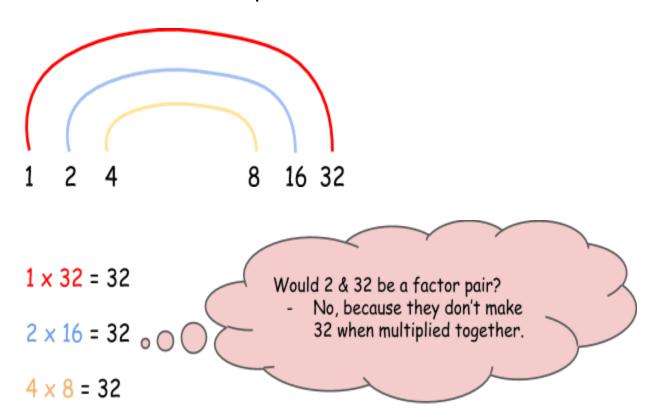
Assignment Math 4

What is a factor pair?

-Factor pair of a number is two numbers that you can multiply together to get the target number.

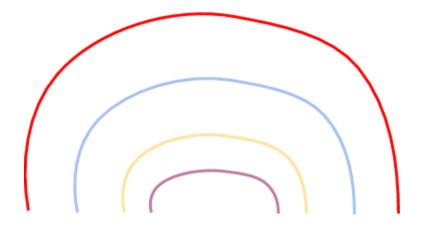
For example...

What are the factor pairs for 32?



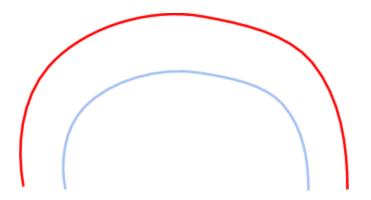
Answer: 1&32, 2&16, 4&8 are the factor pairs for 32.

Let's try... What are the factor pairs for 56?



are the factor pairs for 56.

Let's try... What are the factor pairs for 95?



_ are the factor pairs for 95.

Assignment Math 4

What is a <u>prime number</u>?

A prime number has only two factors: 1 and itself.

2 is a prime number



It's because 2 has only two factors, 1 and 2.

17 is a prime number

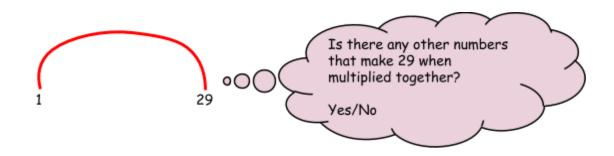


It's because 17 has only two factors, 1 and 17.

True or False?

"29 is a prime number."

Let's find the factors of 29 and find out if 29 is a prime number or not.



The statement is _____ because _____

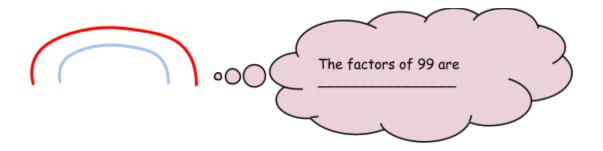
Name:	Period:	Date:	

Assignment Math 4

True or False?

"99 is a prime number."

Let's find the factors of 99 and find out if 99 is a prime number or not.



The statement is _____ because ____

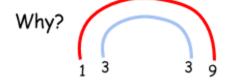
Assignment Math 4

What is a composite number?

A composite number has more than two factors.

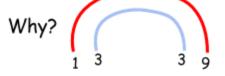
1 is neither prime nor composite number.

9 is a composite number



It's because 9 has more than two factors.

32 is a composite number



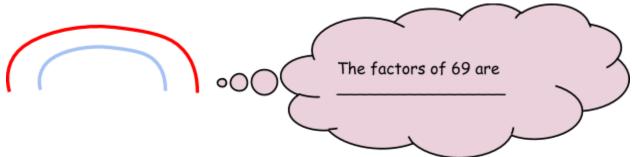
It's because 32 has more than two factors.

True or False?

"69 is a composite number."

Let's find the factors of 69 and find out if 69 is a composite number or not.

Assignment Math 4

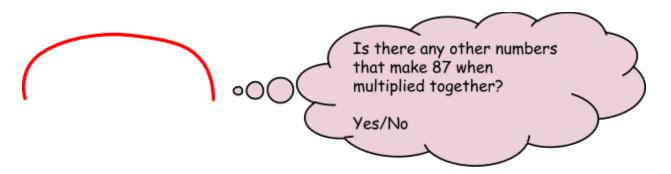


The statement is _____ because _____

True or False?

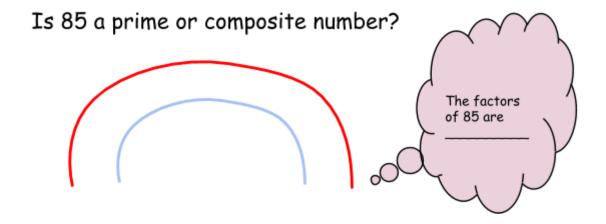
"87 is a composite number."

Let's find the factors of 87 and find out if 87 is a composite number or not.



The statement is _____ because _____

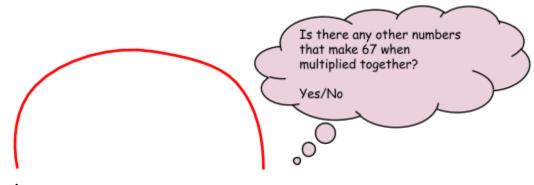
Let's try...



Answer:

Let's try...

Is 67 a prime or composite number?



Answer: