

★ Multiplication & Division – prime numbers

Children on this sheet have a list of different numbers. They are to sort them into a simple table of prime numbers and composite numbers. Children may need a simple explanation on how to find out if a number is a prime number and then take the steps to work on each number.

They then explain how they knew what a prime number was.

Prime numbers 2-24

Sort the numbers into this table.

Prime	Composite

6 7 16 2 5 17 20 11 10
13 30 25 22 40 19 3 50 100

How did you know which numbers were prime numbers?

★★ Multiplication & Division – prime numbers

Children have a slightly more complex table. Once completed they should understand why one of the boxes is empty- and use this to explain what a prime number is and what a composite number is.

Children still might have to have steps to figure out if each number is a prime number, although some children could work this out mentally.

Children are given prime numbers up to 19.

Prime numbers 2-24

Sort the numbers into this table.

	Prime	Composite
2 factors (1 and itself)		
More than 2 factors		

7 6 18 13 21 26 17 30 3
42 19 36 68 23 2 5 110 150

Using the table, explain what a prime number is:

Using the table, explain what a composite number is:

★★★ Multiplication & Division – prime numbers

Children on this sheet sort numbers that are beyond the numbers up to 19 children need to remember. They then need to offer a more detailed explanation of what a prime number is and how you can check if a number is a prime number or a composite number.

Prime numbers 2-24

Sort the numbers into this table.

	Prime	Composite
2 factors (1 and itself)		
More than 2 factors		

43 86 99 47 103 66 61 81 73
78 59 45 29 60 83 110 53 203

Using the table, explain what a prime number is and the steps you would take to check if a number was a prime number.

Using the table, explain what a composite number is and the steps you would take to check if a number was a composite number.

Sort the numbers into this table.

Prime	Composite

6

7

16

2

5

17

20

11

10

13

30

25

22

40

19

3

50

100

How did you know which numbers were prime numbers?

Sort the numbers into this table.

Prime	Composite
7	6
2	16
5	10
17	
	20
11	30
13	50
19	
	25
3	22
	40
	100

How did you know which numbers were prime numbers?

The prime numbers only divide by themselves and 1. No other number.

Sort the numbers into this table.

	Prime	Composite
2 factors (1 and itself)		
More than 2 factors		

- 7
- 6
- 18
- 13
- 21
- 26
- 17
- 30
- 3
- 42
- 19
- 36
- 88
- 23
- 2
- 5
- 110
- 150

Using the table, explain what a prime number is.

Using the table, explain what a composite number is.

Sort the numbers into this table.

	Prime	Composite
2 factors (1 and itself)	<div style="display: flex; justify-content: space-around; border: 1px solid green; border-radius: 10px; padding: 5px;"> 7 13 17 3 </div> <div style="display: flex; justify-content: space-around; border: 1px solid green; border-radius: 10px; padding: 5px; margin-top: 5px;"> 19 23 2 5 </div>	
More than 2 factors		<div style="display: flex; justify-content: space-around; border: 1px solid green; border-radius: 10px; padding: 5px;"> 6 18 21 26 </div> <div style="display: flex; justify-content: space-around; border: 1px solid green; border-radius: 10px; padding: 5px; margin-top: 5px;"> 30 42 36 88 </div> <div style="display: flex; justify-content: space-around; border: 1px solid green; border-radius: 10px; padding: 5px; margin-top: 5px;"> 110 150 </div>

Using the table, explain what a prime number is.

A prime number only has 2 factors, 1 and itself.

Using the table, explain what a composite number is.

A composite number has more than 2 factors and can be divided by other numbers.



Sort the numbers into this table.

	Prime	Composite
2 factors (1 and itself)		
More than 2 factors		

- 43
- 86
- 99
- 97
- 103
- 66
- 61
- 81
- 73
- 78
- 59
- 45
- 29
- 60
- 83
- 110
- 53
- 203

Using the table, explain what a prime number is and the steps you would take to check if a number was a prime number.

Using the table, explain what a composite number is and the steps you would take to check if a number was a composite number.



Sort the numbers into this table.

	Prime	Composite
2 factors (1 and itself)	43 97 103 61 73 59 29 83 53	
More than 2 factors		86 99 66 81 78 45 60 110 203

Using the table, explain what a prime number is and the steps you would take to check if a number was a prime number.

A prime number only has 2 factors, 1 and itself. You can check to see if a number is a prime number by seeing if it is divisible by any other number other than itself or one. For example...

Using the table, explain what a composite number is and the steps you would take to check if a number was a composite number.

A composite number has more than 2 factors. You can check to see if a number is a composite number by seeing if it is divisible by any other number other than itself or one. If it can be divided equally, then it is a composite number For example... (203 is divisible by 1, 7, 29, and 203)