

Primes to 100

1 a) Find the factors of these numbers.

6 8 9

The factors of 6 are _____

The factors of 8 are _____

The factors of 9 are _____

b) Find the factors of these numbers.

3 5 7

The factors of 3 are _____

The factors of 5 are _____

The factors of 7 are _____

c) What is the same and what is different about your answers to part a) and part b)?

d) What do you notice about all the numbers in part b)?

Complete the sentence.

All the numbers in part b) are _____ numbers.



2 How can you prove that 18 is not a prime number?

3 Circle the prime numbers in each list.

a) 1 2 3 4 5 6 7

b) 17 22 9 36 21 35 23

c) 10 18 38 74 92 2 14

4 a) Many people think that 1 is a prime number.
Explain why 1 is not a prime number.

b) Many people think that 2 is not a prime number.
Explain why people might think this.

5 Write ten numbers in the two-way table. Each section must have at least one number.

	Even	Not even
Prime		
Not prime		



6 Here is part of a hundred square.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Cross out all the numbers that are **not** prime numbers.

List the prime numbers between 0 and 50

7

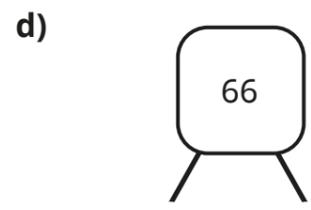
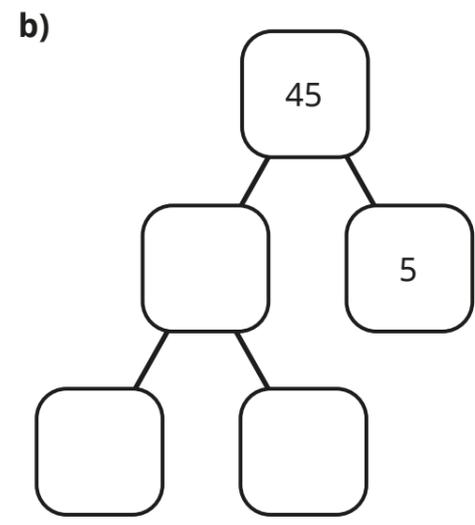
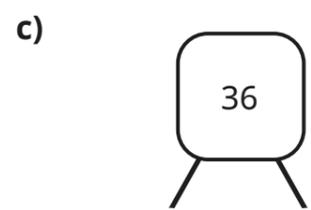
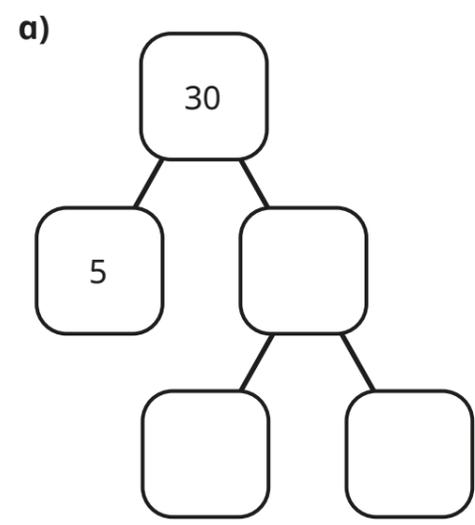
I think 87 is a prime number because it is odd and most numbers that end in 7 are prime.



Do you agree with Tiny? _____

Test whether or not 87 is a prime number and show your reasoning.

8 Complete the prime factor trees.



9 + = 100

Both and are prime numbers.

Find all the possible values for and .

