

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)?

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 sorting diagram. Each section must have at least one number.

	Even	Not even
Prime		
Not prime		



6

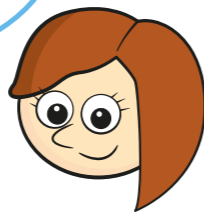
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

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.



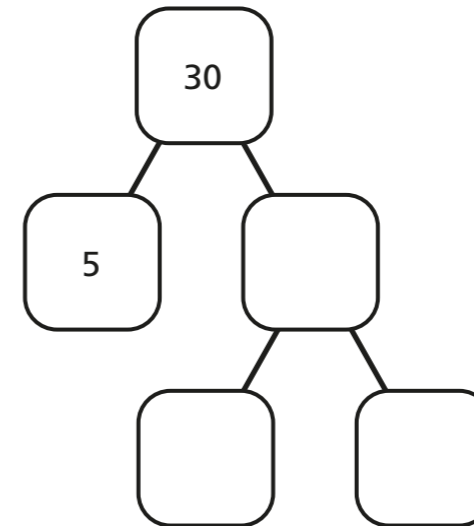
Do you agree with Rosie? _____

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

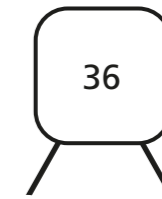
8

Complete the prime factor trees.

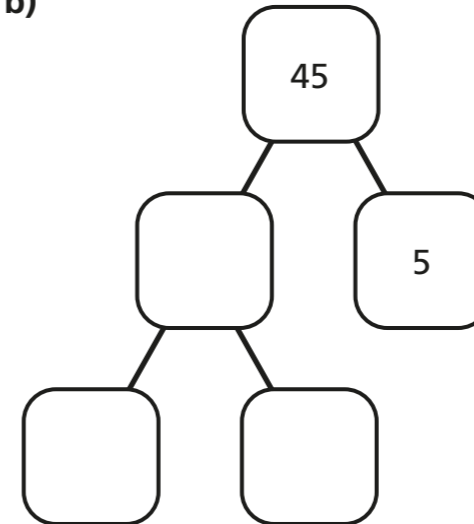
a)



c)



b)



d)



9

$$\star + \blacksquare = 100$$

Both \star and \blacksquare are prime numbers.

How many different solutions can you find?