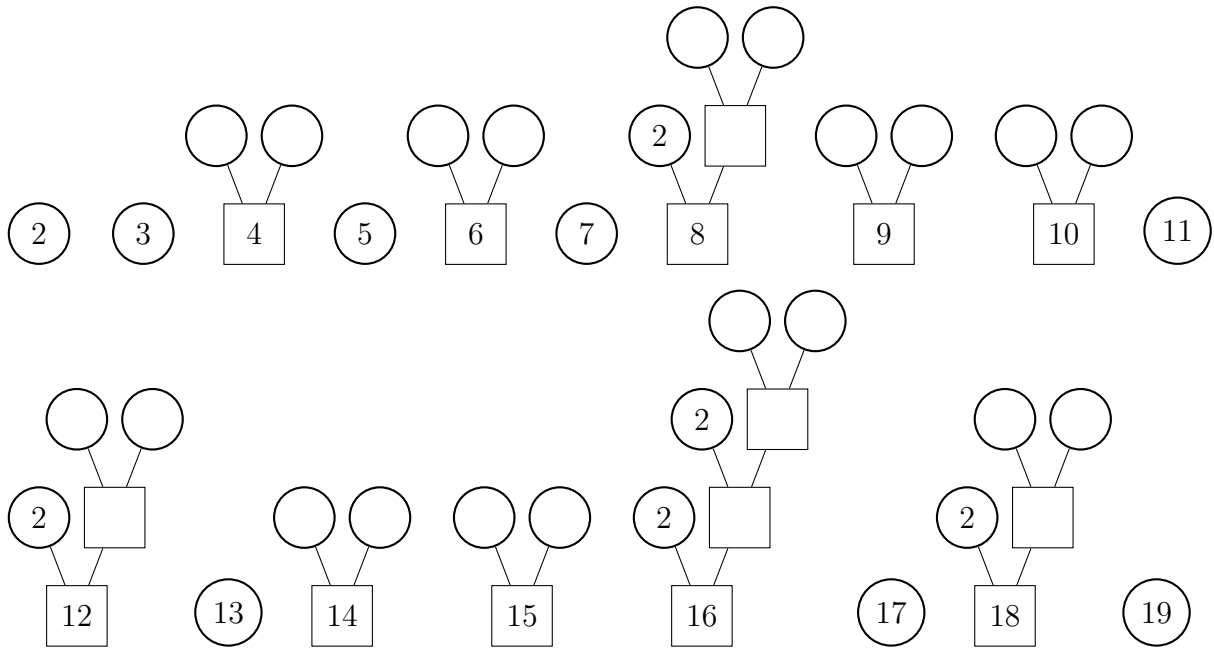


1. Prime numbers have no “leaves” on their prime factor “tree”.

(a) Complete the prime factor trees below:-



(b) Complete the list of prime numbers ....., 3, ....., 7, ..... , ..... , ..... , ..... , 23, 29

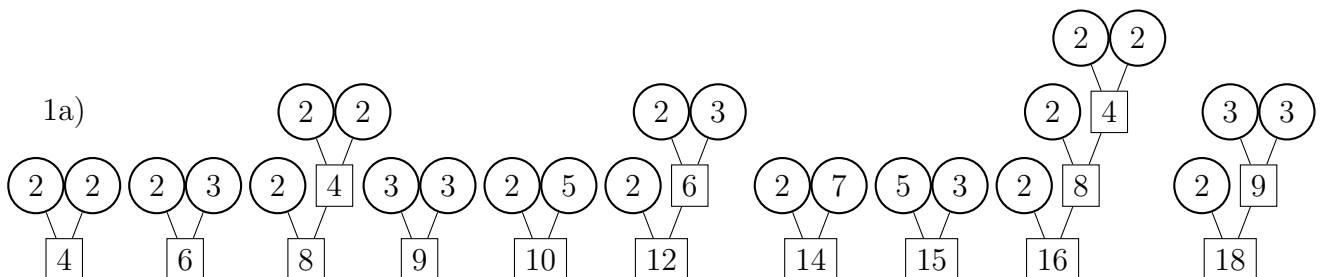
(c) Complete this table about the prime numbers up to 30

Range of numbers	Odd prime	Odd NOT prime	Even prime	Even NOT prime
1 to 10		1		
11 to 20				20
21 to 30	23, 29	21, 25, 27		22, 24, 26, 28, 30

**1 is not a prime number** because mathematicians like to write as little as possible, and they got fed up of saying things like ... all primes (except one) and ... a product of prime numbers (1 is not allowed). So they decided 1 shouldn't be called a prime number.

Some people like to learn the prime numbers and some people like to learn that 2 is a prime number and which odd numbers are not prime. Which do you think will be easier for you?

Answers



1b) List of prime numbers up to 30 are 2, 3, 5, 7, 11, 13, 17, 19, 23, 29

1c)

Range of numbers	Odd prime	Odd NOT prime	Even prime	Even NOT prime
1 to 10	3, 5, 7	1, 9	2	4, 6, 8, 10
11 to 20	11, 13, 17, 19	15		12, 14, 16, 18, 20
21 to 30	23, 29	21, 25, 27		22, 24, 26, 28, 30

2. Here is a list of numbers.

7    9    14    15    21    27    33    35    45

From the numbers in the list, write down a prime number.

2. ....

3. Here is a list of numbers.

2    12    14    16    22    26    32    64    169

From the numbers in the list, write down the prime number.

3. ....

4. Here is a list of numbers.

9    19    20    21    25    27    35    45

From the numbers in the list, write down a prime number.

4. ....

5. Here is a list of numbers.

9    10    12    14    17    100    120    125    240

From the numbers in the list, write down a prime number.

5. ....

6. Here is a list of numbers.

5    6    8    20    27    35    36    50    65

From this list, write down the prime number.

6. ....

7. Here is a list of numbers.

2    9    10    12    15    20    27    40

From the numbers in the list, write down the prime number.

7. ....

Answers 2) 7    3) 2    4) 19    5) 17    6) 5    7) 2