1. (i) Complete: 1 is **not** a prime number because mathematicians decided its quicker to write

   - *all the prime ……………………….. than*
   - *all the prime numbers except 1*

   (ii) Draw the prime factor trees for all the **non prime** numbers from 1 and 10

   (iii) Write a list of the prime numbers between 1 and 10 ……………………………

2. A student wrote "the prime numbers between 1 and 10 are 1, 3, 5, 7 and 9"

   Write down three things wrong with the student's statement.

   (1) ....

   (2) ....

   (3) ....

3. (i) Complete: 1 is **not** a prime number because mathematicians decided its quicker to write

- *all the prime numbers* than
- *all the prime numbers except* .....

(ii) Draw the prime factor trees for all the **non prime** numbers from 1 and 10

(iii) Write a list of the prime numbers between 1 and 10 ....

4. A student wrote "the prime numbers between 1 and 10 are 3, 5, 7 and 9"

Write down two things wrong with the student's statement.

(1) ....

(2) ....

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Answers

1. (i) numbers,
   (ii) $4 = 2 \times 2$, $6 = 2 \times 3$, $8 = 2 \times 2 \times 2$, $9 = 3 \times 3$, $10 = 2 \times 5$
   (iii) 2, 3, 5, 7

2. 1 is not a prime number, 2 is a prime number, 9 is not a prime number

3. (i) 1,
   (ii) $4 = 2 \times 2$, $6 = 2 \times 3$, $8 = 2 \times 2 \times 2$, $9 = 3 \times 3$, $10 = 2 \times 5$
   (iii) 2, 3, 5, 7

4. 2 is a prime number, 9 is not a prime number