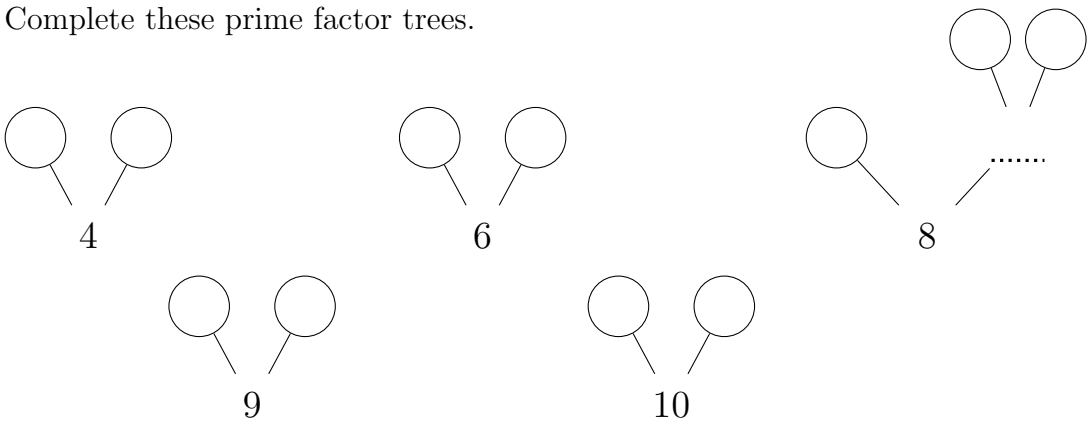
1. (a) Complete these prime factor trees.



F.Y.I. 1 is **not** a prime number because mathematicians decided its quicker to write

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

(b) Write down a list of the prime numbers from 1 and 10 .....

(c) Copy out this definition of a prime number
"prime numbers have exactly 2 factors 1 and themselves"

.....

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prime (10) Q1 (a) $4 = 2 \times 2$, $6 = 2 \times 3$, $8 = 2 \times 2 \times 2$, $9 = 3 \times 3$, $10 = 2 \times 5$ (b) 2, 3, 5, 7
Q2 (i) prime, (ii) see Q1 (a), (iii) 2, 3, 5, 7 Q3: prime

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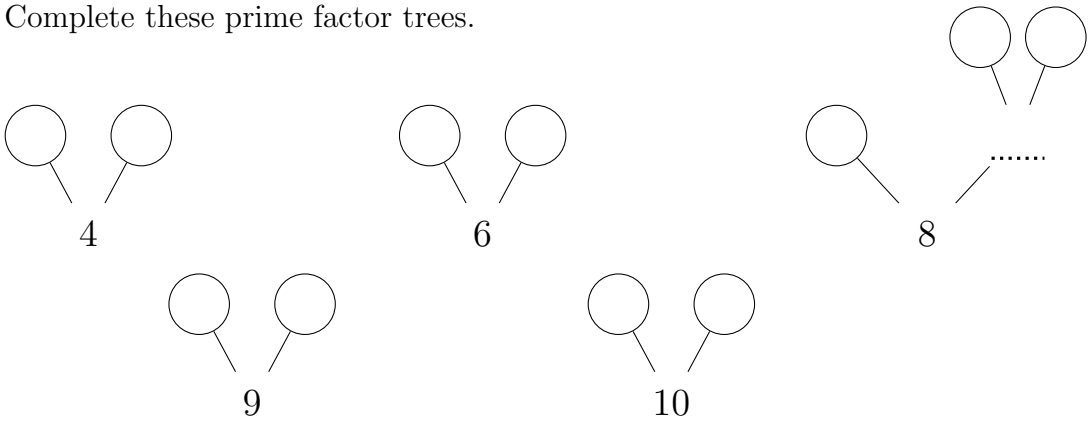

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2. (i) Complete: 1 is **not** a prime number because mathematicians decided its quicker to write

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

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3. Complete this definition

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