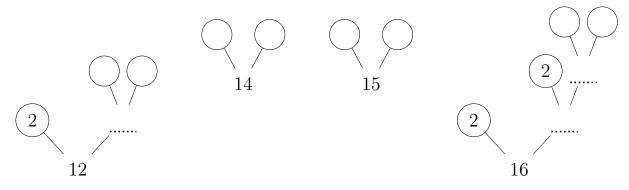
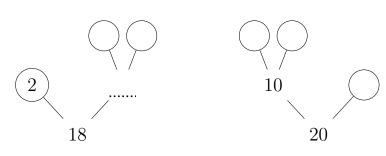
1. (i) Complete these prime factor trees.





(ii) Write down a list of the prime numbers from 11 to 20

2. (i) Draw the prime factor trees for all the **non prime** numbers from 11 and 20

(ii) Write a list of the prime numbers between 11 and 20 \dots

3.	A student wrote "the prime numbers between 11 and 20 are 11, 13, 15, 17 and 19"
	The student is wrong.
	Explain what is wrong with the students statement

Answers

- 1. (i) $12 = 2 \times 2 \times 3$, $14 = 2 \times 7$, $15 = 3 \times 5$, $16 = 2 \times 2 \times 2 \times 2$, $18 = 2 \times 3 \times 3$, $20 = 2 \times 2 \times 5$ (ii) 11, 13, 17, 19
- 2. (i) $12 = 2 \times 2 \times 3$, $14 = 2 \times 7$, $15 = 3 \times 5$, $16 = 2 \times 2 \times 2 \times 2$, $18 = 2 \times 3 \times 3$, $20 = 2 \times 2 \times 5$ (ii) 11, 13, 17, 19
- 3. 15 is not prime because e.g. 3×5 are a factor pair (or similar)