1. By expressing it as the product of prime factors, show that 5625 is a square number.
2. Colin believes that all even numbers will have one prime factor in common. What prime factor is he thinking of? Why doesn’t this work for odd numbers?
3. What is the smallest number that has 2 different prime factors? What are the factors?
4. What is the smallest number that has 3 different prime factors? What are factors? What is the pattern that you notice?