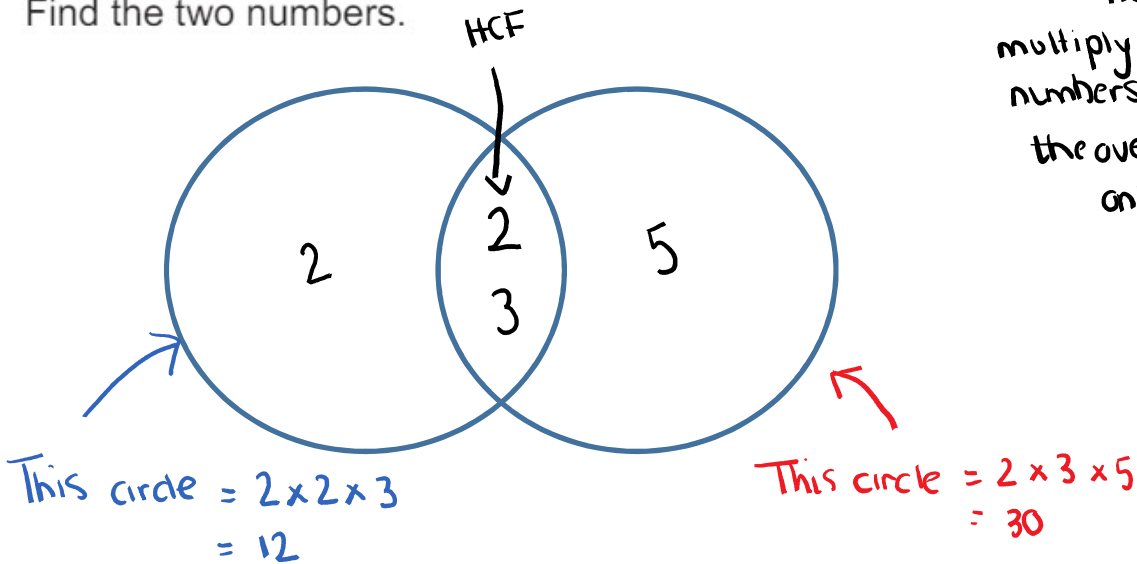# Question of the day   Day 7

Two numbers have these properties.

- Both numbers are greater than 6.
- Their highest common factor (HCF) is 6.
- Their lowest common multiple (LCM) is 60.

Find the two numbers.

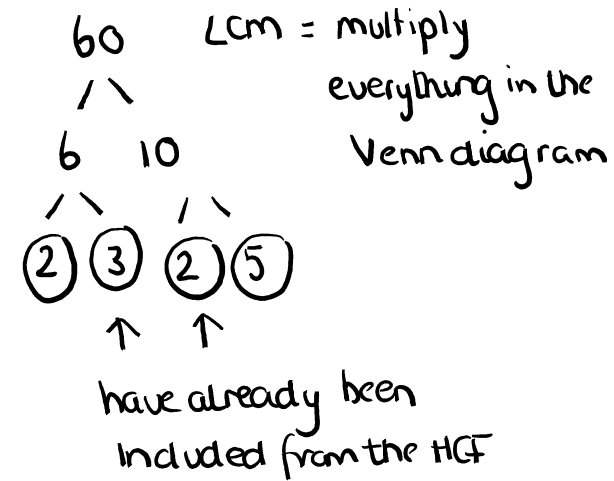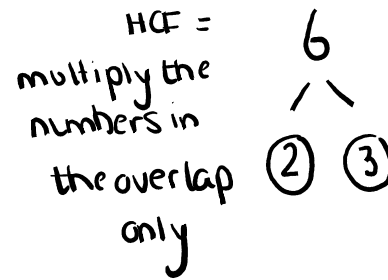When you see a question with HCF and LCM, remember product of prime factors and Venn diagrams.
Write both 60 and 6 as a product of their prime factors.

HCF

2

2
3

5

This circle = 2×2×3
= 12

This circle = 2×3×5
= 30

These are your 2 numbers

12 .... and .... 30 .... [3]

HCF =
multiply the
numbers in
the overlap
only

6
/\
② ③

60
/\
6   10
/\   /\
② ③   ② ⑤
↑   ↑
have already been
included from the HCF

LCM = multiply
everything in the
Venn diagram

Foundation