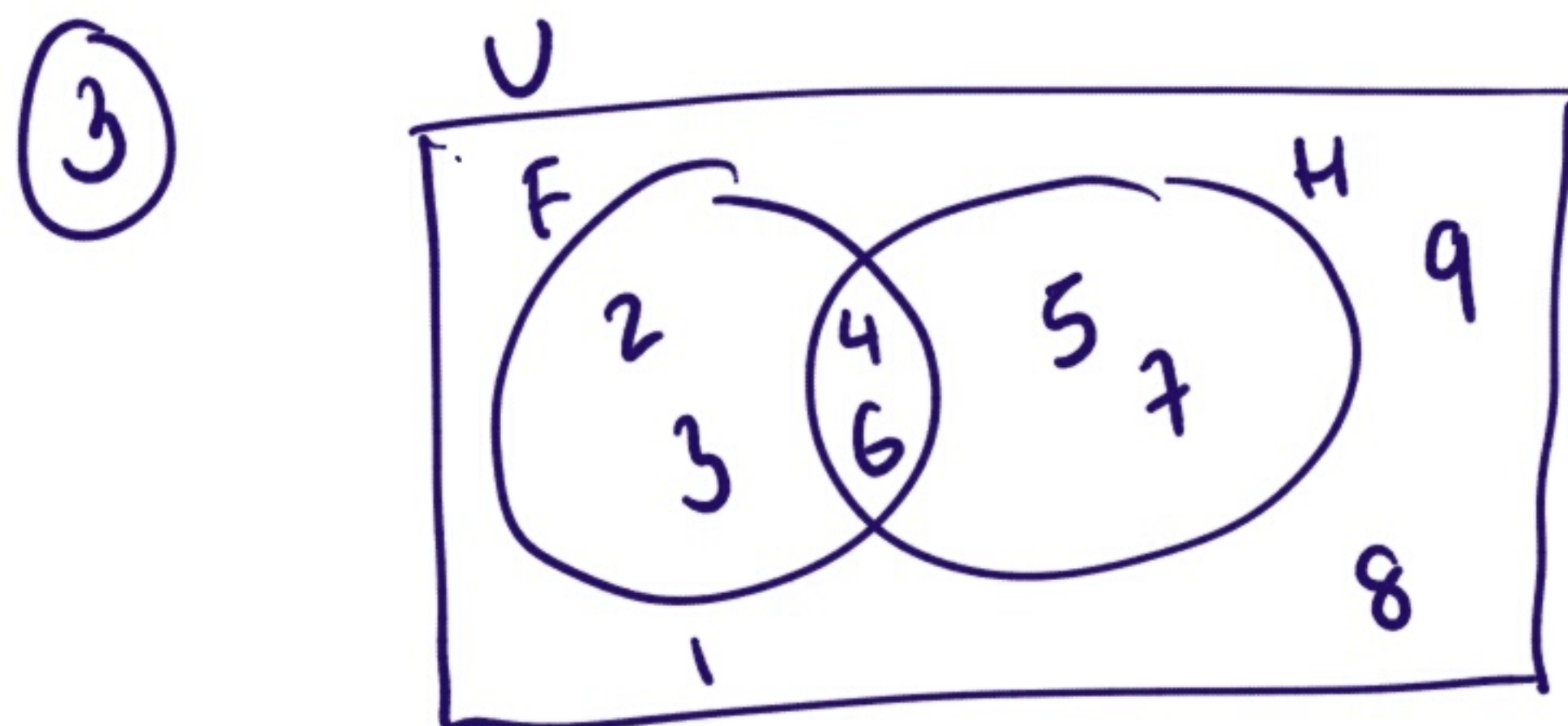


First year Sets Test corrections

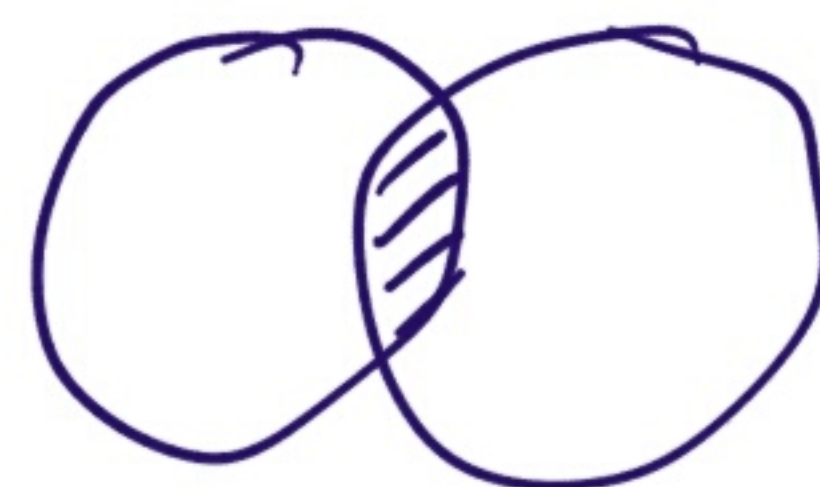
①  $\{m, a, t, h, e, i, c, s\}$

②  $c \notin X \quad c \in Y$



$$\begin{aligned} \#(F \cap H) &= 2 \\ F' &= \{1, 5, 7, 8, 9\} \\ (F \cup H)' &= \{9, 1, 8\} \end{aligned}$$

④  $\emptyset \quad \{\}$



$A \cap B$



$A \cup B$



$A \cup B \setminus A \cap B$



## Factors and Primes

Factor - is a number that divides evenly into another number

1 is a factor of all numbers

Eg) The set of factors of 6  
 $\{1, 2, 3, 6\}$  pairs of factors of 6  
 $2 \times 3 = 6$   
 $6 \times 1 = 6$

Factors  $\rightarrow$  Divisors

A number that has more than TWO factors - COMPOSITE NUMBER

HCF - Highest Common Factor  
of two numbers is the highest number that divides evenly into both numbers.

Eg Find the HCF of 12 and 18

$$12 = 1, 2, 3, 4, \textcircled{6}, 12$$

$$18 = 1, 2, 3, \textcircled{6}, 9, 18$$

HCF of 12 and 18  
is 6

HW pg 6

Q2 write out the pairs of factors

i) 18      ii) 30      iii) 36      iv) 40

Q8 Factors of 18 =

Factors of 24 =

The HCF of 18 and 24