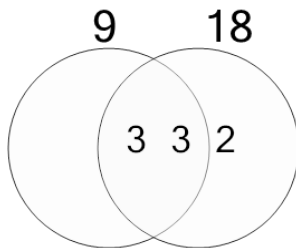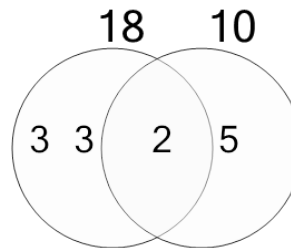# mobius

Factoring - Venn Diagrams - 2 Numbers - Populated Venn to Distinct Factors

1 Use the factor diagram to find all the distinct prime factors of these numbers.
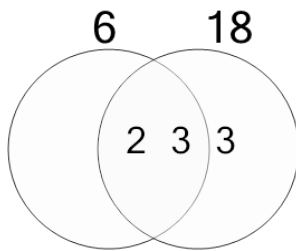
9   18

3 3 2

A	{3, 3, 2}
B	{3, 4, 2}
C	{3, 3, 2, 3}
D	{3, 2, 2}
E	{3, 3, 3}
F	{3, 2, 2, 4, 4}

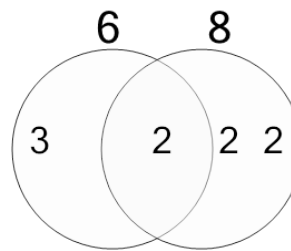**2** Use the factor diagram to find all the distinct prime factors of these numbers.

18   10

3 3   2   5

A	{2, 3, 3, 5, 5}
B	{2, 3, 3, 5}
C	{2, 3, 5}
D	{2, 3, 3, 5, 2}
E	{2, 3, 3, 5, 4}
F	{2, 3, 3}

3 Use the factor diagram to find all the distinct prime factors of these numbers.
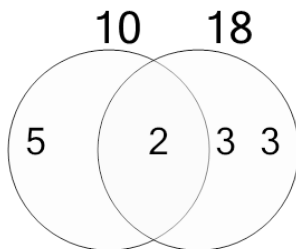
6   18

2 3 3

A	{2, 3, 3}	B	{2, 3}
C	{2, 7, 3}	D	{3, 3}
E	{5, 3, 3}	F	{6, 3, 3}

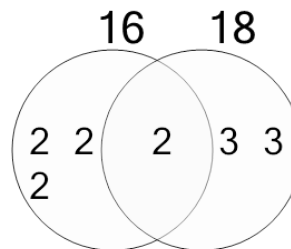**4** Use the factor diagram to find all the distinct prime factors of these numbers.

6   8

3   2   2 2

A	{2, 3, 2, 2}
B	{2, 3, 3, 2}
C	{6, 3, 2, 2}
D	{2, 2, 2}
E	{2, 3, 2}
F	{2, 3, 2, 2, 2}

5 Use the factor diagram to find all the distinct prime factors of these numbers.
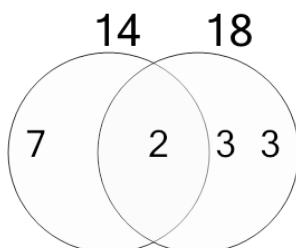
10   18

5   2   3 3

A	{2, 5, 3, 3}
B	{5, 3, 3}
C	{2, 3, 3}
D	{2, 5, 3}
E	{2, 2, 3, 3}
F	{6, 5, 3, 3}

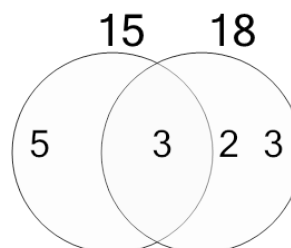**6** Use the factor diagram to find all the distinct prime factors of these numbers.

16   18

2 2   2   3 3
2

A	{2, 2, 2, 2, 3}
B	{2, 2, 2, 2, 3, 3}
C	{2, 3, 2, 2, 3, 3}
D	{2, 7, 2, 2, 3, 3}
E	{2, 2, 2, 3, 3}
F	{2, 2, 2, 2, 3, 3, 2}

7 Use the factor diagram to find all the distinct prime factors of these numbers.

14   18

7   2   3 3

A	{2, 7, 3, 3}
B	{6, 7, 3, 3}
C	{2, 7, 3, 5}
D	{2, 7, 3}
E	{2, 7, 7, 3}
F	{7, 3, 3}

8 Use the factor diagram to find all the distinct prime factors of these numbers.

15   18

5   3   2 3

A	{3, 5, 3}
B	{3, 5, 5, 3}
C	{3, 2, 3}
D	{3, 5, 2, 3, 6}
E	{3, 5, 2, 3}
F	{3, 5, 2, 3, 4}