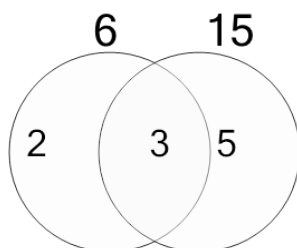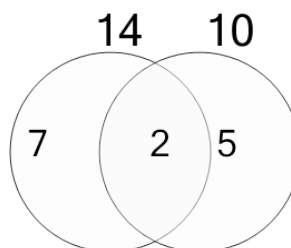# Factoring - Venn Diagrams - 2 Numbers - Populated Venn to Distinct Factors

Name

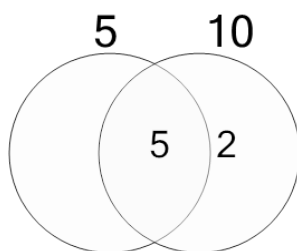**1** Use the factor diagram to find all the distinct prime factors of these numbers.

6   15

2   3   5

A	{2, 3, 5}
B	{2, 5, 5, 6, 3}
C	{3, 5, 7, 6, 5}
D	{2, 3, 5, 5}
E	{2, 3, 5, 6}
F	{4, 3, 5}

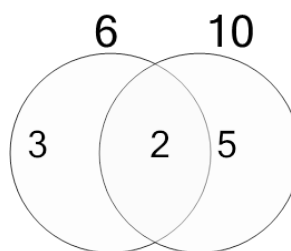**2** Use the factor diagram to find all the distinct prime factors of these numbers.

14   10

7   2   5

A	{2, 7, 5, 4}
B	{2, 2, 5}
C	{2, 7, 4}
D	{2, 5}
E	{2, 7, 5}
F	{7, 5, 7, 5, 7}

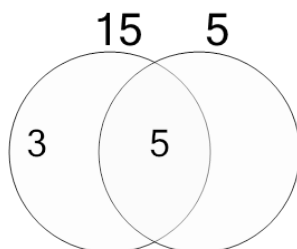**3** Use the factor diagram to find all the distinct prime factors of these numbers.

5   10

5   2

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

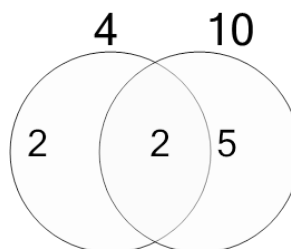**4** Use the factor diagram to find all the distinct prime factors of these numbers.

6   10

3   2   5

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

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

15   5

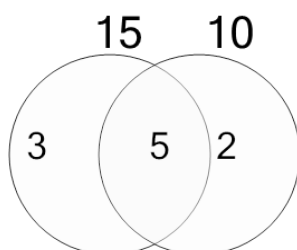3   5

A	{5, 4, 4, 4}
B	{3, 5, 4}
C	{3, 5}
D	{3, 5, 6}
E	{7, 5, 3, 2, 4}
F	{3, 6}

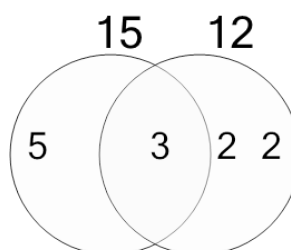**6** Use the factor diagram to find all the distinct prime factors of these numbers.

4   10

2   2   5

A	{2, 2, 7, 6, 4}
B	{2, 2, 5, 4}
C	{2, 5, 2, 5, 6}
D	{2, 2, 5}
E	{2, 5, 4, 7, 2}
F	{2, 2, 5, 2}

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

15   10

3   5   2

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

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

15   12

5   3   2   2

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