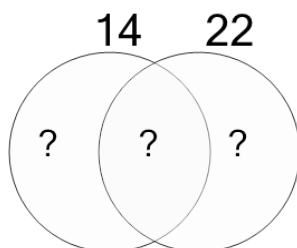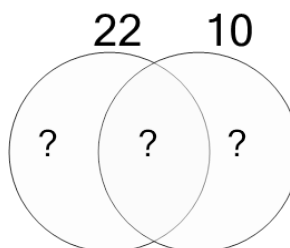# Factoring - Venn Diagrams - 2 Numbers - To Distinct Factors

1 Populate the factor diagram and find the distinct prime factors of these numbers.
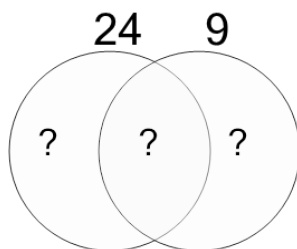
14   22

? ? ?

A	{7, 11}
B	{2, 11}
C	{2, 7, 11}
D	{2, 7, 11, 6}
E	{2, 7}
F	{2, 7, 3}

2 Populate the factor diagram and find the distinct prime factors of these numbers.
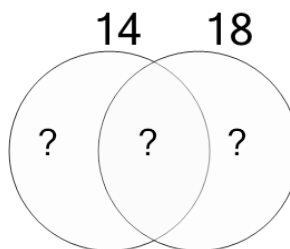
22   10

? ? ?

A	{2, 5, 3, 4, 2}
B	{2, 11, 5}
C	{2, 6, 5}
D	{2, 5, 3, 6, 3}
E	{2, 11, 5, 5}
F	{2, 11, 4}

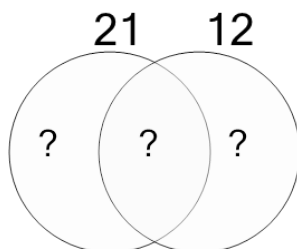**3** Populate the factor diagram and find the distinct prime factors of these numbers.

24   9

? ? ?

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

4 Populate the factor diagram and find the distinct prime factors of these numbers.
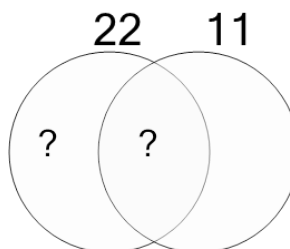
14   18

? ? ?

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

5 Populate the factor diagram and find the distinct prime factors of these numbers.
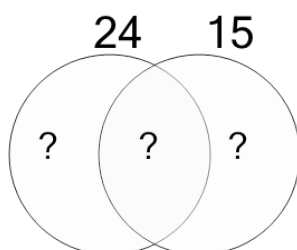
21   12

? ? ?

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

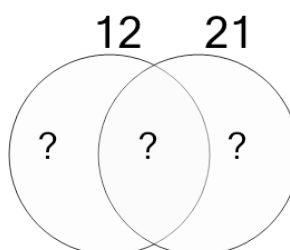**6** Populate the factor diagram and find the distinct prime factors of these numbers.

22   11

? ?

A	{2, 7, 5, 3, 3}
B	{2, 7, 5, 3}
C	{11}
D	{7, 11, 3, 5, 5}
E	{5, 11, 5, 4, 4}
F	{2, 11}

7 Populate the factor diagram and find the distinct prime factors of these numbers.

24   15

? ? ?

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

8 Populate the factor diagram and find the distinct prime factors of these numbers.

12   21

? ? ?

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