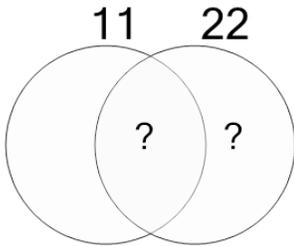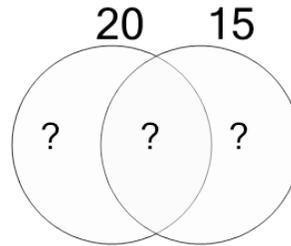# Factoring - Venn Diagrams - 2 Numbers - To Shared Factors

1 Populate the factor diagram and find the shared prime factors (in center)
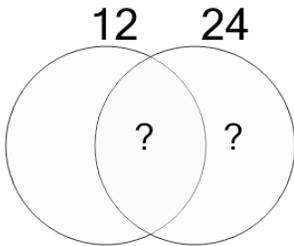
11   22

A	{2, 6, 7}
B	{11}
C	{11, 3, 7, 7, 4}
D	{3, 2, 2, 7}
E	{4, 3, 4}
F	{11, 5}

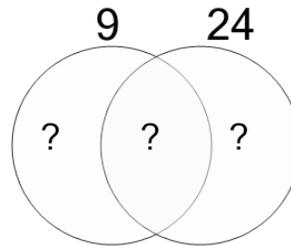**2** Populate the factor diagram and find the shared prime factors (in center)

20   15

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

3 Populate the factor diagram and find the shared prime factors (in center)

12   24

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

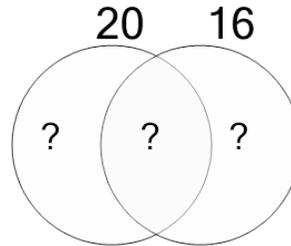**4** Populate the factor diagram and find the shared prime factors (in center)

9   24

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

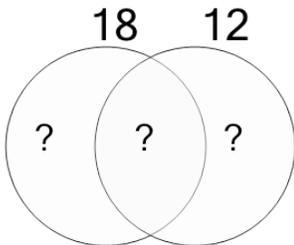**5** Populate the factor diagram and find the shared prime factors (in center)

18   14
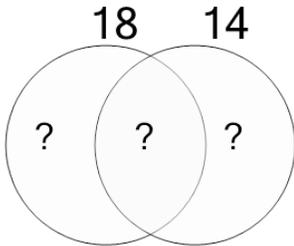
A	{3}
B	{2, 6, 6, 4, 5}
C	{2}
D	{5, 7, 4}
E	{5, 5, 3}
F	{6, 2, 7}

6 Populate the factor diagram and find the shared prime factors (in center)

20   16

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

7 Populate the factor diagram and find the shared prime factors (in center)

18   12

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

8 Populate the factor diagram and find the shared prime factors (in center)

22   24
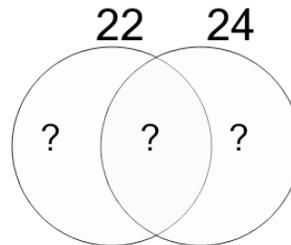
A	{7, 2, 4}
B	{5, 3, 7, 4}
C	{2, 2, 4, 3}
D	{2}
E	{7, 4, 5}
F	{7, 2, 6}

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