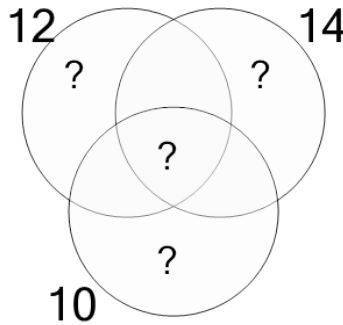# mobius

Math worksheet on *'Factoring - Venn Diagrams - 3 Numbers - To Shared Factors (Level 3)'*. Part of a broader unit on *'Factoring and Venn Factor Diagrams - Practice'*
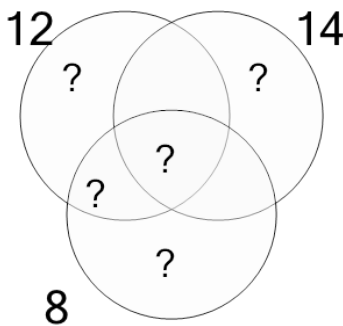
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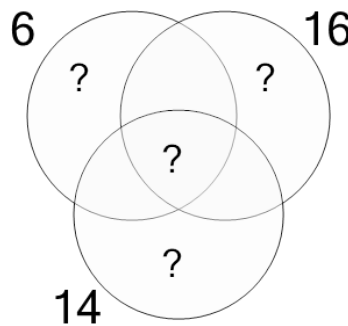**1** Use the factor diagram to find the shared prime factors of these numbers (in the center)

12   14
?   ?
?
?
10

a	{2, 4}
b	{3, 4, 6}
c	{2}
d	{6, 3, 3, 7}
e	{2, 6}
f	{2, 5, 5}

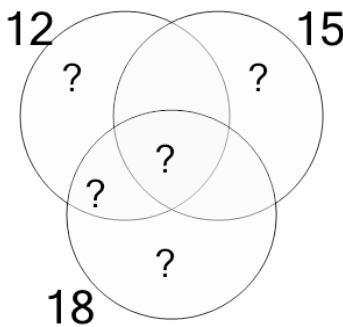**2** Use the factor diagram to find the shared prime factors of these numbers (in the center)

12   14
?   ?
?
?
?
8

a	{4, 2, 2}
b	{2}
c	{2, 4}
d	{6}
e	{2, 2, 4, 5, 2}
f	{5, 2, 6}

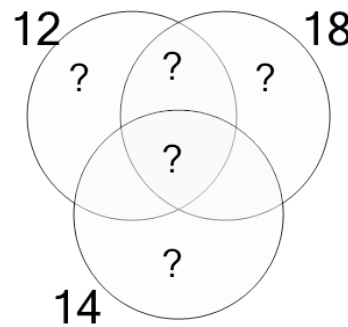**3** Use the factor diagram to find the shared prime factors of these numbers (in the center)

6   16
?   ?
?
?
14

a	{4, 6, 3, 6}
b	{2}
c	{2, 6, 3}
d	{4, 7, 6}
e	{2, 4, 4}
f	{7}

4 Use the factor diagram to find the shared prime factors of these numbers (in the center)
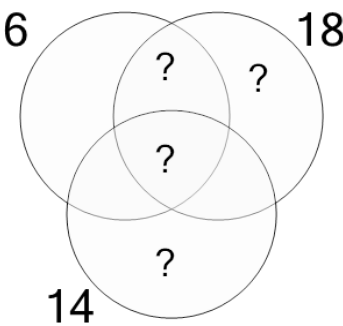
12   15
?   ?
?
?
?
18

a	{5}
b	{3, 3, 5}
c	{7}
d	{5, 3, 6, 3}
e	{5, 2, 4}
f	{3}

5 Use the factor diagram to find the shared prime factors of these numbers (in the center)
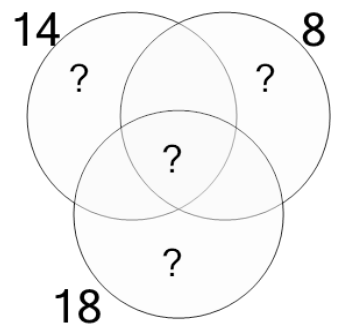
12   18
?   ?   ?
?
?
14

a	{6}
b	{2, 2}
c	{2}
d	{2, 4}
e	{2, 7, 5, 2, 4}
f	{6, 3, 7, 5}

6 Use the factor diagram to find the shared prime factors of these numbers (in the center)

6   18
?   ?
?
?
14

a	{2, 6, 4, 6}
b	{2, 5, 6, 7}
c	{3}
d	{2}
e	{5, 2, 5}
f	{2, 2, 3}

7 Use the factor diagram to find the shared prime factors of these numbers (in the center)

14   8
?   ?
?
?
18

a	{2}
b	{2, 6}
c	{4, 2, 5}
d	{2, 7, 7, 6}
e	{5}
f	{2, 5}