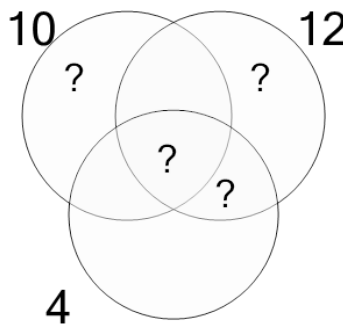# mobius

Math worksheet on *'Factoring - Venn Diagrams - 3 Numbers - To Shared Factors (Level 2)'*. Part of a broader unit on *'Factoring and Venn Factor Diagrams - Intro'*
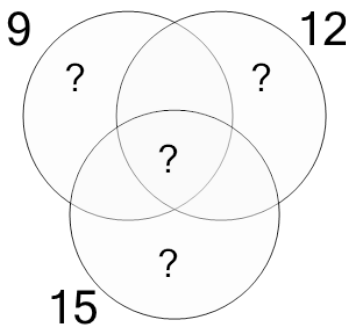
Learn online: app.mobius.academy/math/units/factoring_and_venn_diagrams_intro/

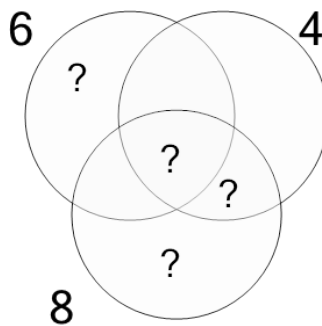**1** Use the factor diagram to find the shared prime factors of these numbers (in the center)

10   12

? ? ? ?

4

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

2 Use the factor diagram to find the shared prime factors of these numbers (in the center)
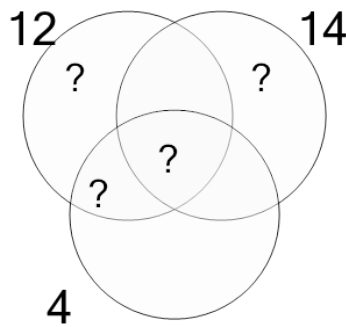
9   12

? ? ? ?

15

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

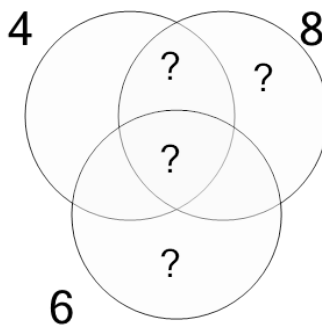**3** Use the factor diagram to find the shared prime factors of these numbers (in the center)

6   4

? ? ? ?

8

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

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

12   14

? ? ? ?

4

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

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

4   8

? ? ? ?

6

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

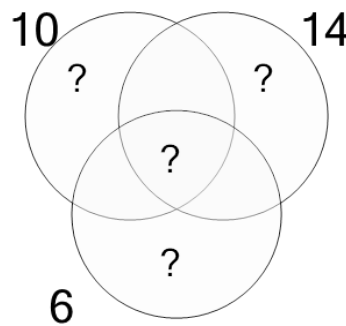**6** Use the factor diagram to find the shared prime factors of these numbers (in the center)

6   15

? ? ? ?

9
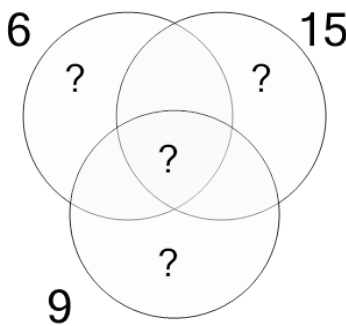
a	{3, 3, 3, 5, 7}
b	{6, 6, 5}
c	{7, 3, 6}
d	{4}
e	{5, 6, 7}
f	{3}

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

10   14

? ? ?

6

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