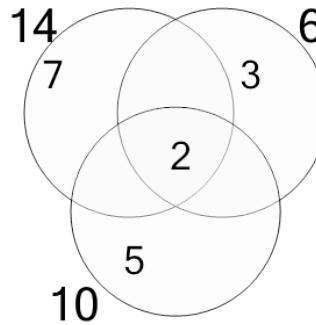# mobius

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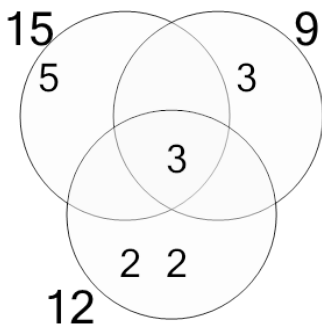
Learn online: app.mobius.academy/math/units/factoring_and_venn_diagrams_intro/

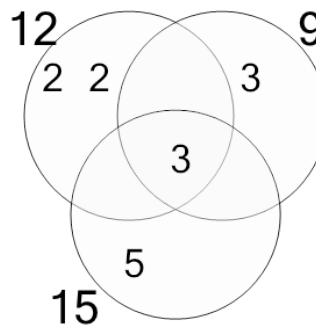**1** Use the factor diagram to find all the distinct factors of these numbers.

14　　6
7　　3
2
5
10

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

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

15　　9
5　　3
3
2　2
12

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

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

12　　9
2　2　3
3
5
15

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

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

4　　14
7
2
2
2
8
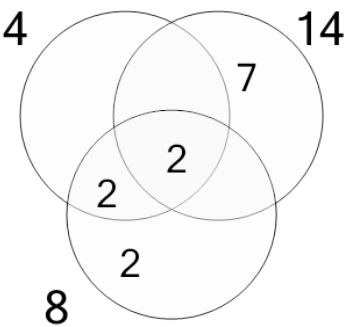
a	{2, 2, 7, 2, 6}
b	{2, 2, 7, 2, 2}
c	{2, 2, 7, 2, 4}
d	{2, 2, 7, 2}
e	{2, 2, 7, 5}
f	{2, 2, 7, 2, 7}

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

14　　4
7
2
2
3
12
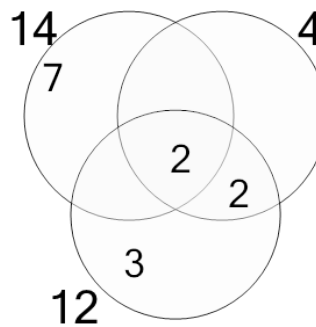
a	{6, 7, 2, 3}
b	{2, 7, 2, 6}
c	{2, 7, 3}
d	{2, 7, 2}
e	{2, 7, 2, 3, 7}
f	{2, 7, 2, 3}

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

8　　12
2　2　3
2
7
14
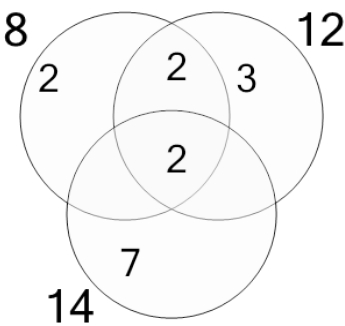
a	{2, 2, 2, 3, 7, 2}
b	{2, 2, 2, 3, 7}
c	{2, 2, 3, 7}
d	{2, 2, 6, 3, 7}
e	{2, 2, 2, 3, 7, 5}
f	{2, 2, 2, 3, 7, 7}

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

14　　12
7　　2
2
3
6
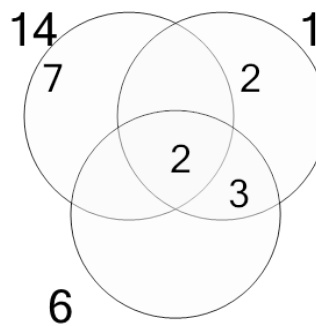
a	{2, 7, 2, 3, 3}
b	{2, 7, 2, 3}
c	{2, 7, 2, 5}
d	{2, 6, 2, 3}
e	{7, 2, 3}
f	{2, 7, 2, 3, 4}

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