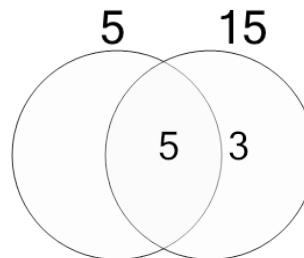




Math worksheet on 'Factoring - Venn Diagrams - 2 Numbers - Populated Venn to Distinct Factors (Level 2)'. Part of a broader unit on 'Factoring and Venn Factor Diagrams - Intro'

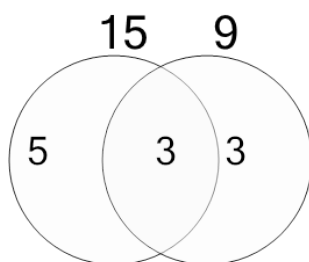
Learn online: [app.mobius.academy/math/units/factoring\\_and\\_venn\\_diagrams\\_intro/](http://app.mobius.academy/math/units/factoring_and_venn_diagrams_intro/)

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



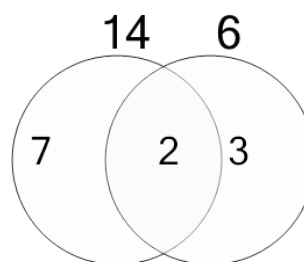
- |          |                 |
|----------|-----------------|
| <b>a</b> | {3}             |
| <b>b</b> | {5, 2, 7, 2, 6} |
| <b>c</b> | {5, 3, 5}       |
| <b>d</b> | {5, 3}          |
| <b>e</b> | {4, 3, 4, 2, 4} |
| <b>f</b> | {5}             |

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



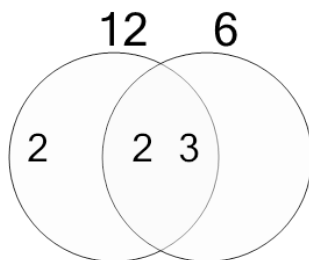
- |          |                 |
|----------|-----------------|
| <b>a</b> | {7, 5, 3}       |
| <b>b</b> | {5, 3, 7, 3, 4} |
| <b>c</b> | {3, 5, 3}       |
| <b>d</b> | {4, 5, 3}       |
| <b>e</b> | {6, 5, 3}       |
| <b>f</b> | {3, 5, 3, 4}    |

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



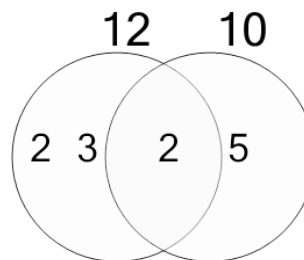
- |          |                 |
|----------|-----------------|
| <b>a</b> | {2, 2, 3}       |
| <b>b</b> | {2, 7, 3, 3}    |
| <b>c</b> | {2, 7}          |
| <b>d</b> | {2, 7, 3}       |
| <b>e</b> | {2, 7, 3, 2}    |
| <b>f</b> | {2, 3, 5, 6, 7} |

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



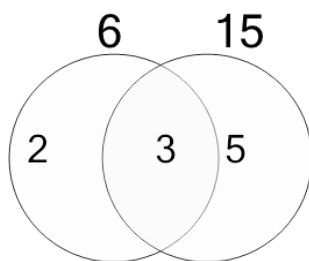
- |          |                 |
|----------|-----------------|
| <b>a</b> | {5, 2, 3}       |
| <b>b</b> | {2, 5, 3}       |
| <b>c</b> | {2, 2, 3, 2}    |
| <b>d</b> | {2, 2, 5, 6, 5} |
| <b>e</b> | {2, 2, 3, 7}    |
| <b>f</b> | {2, 2, 3}       |

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



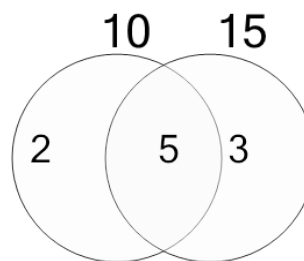
- |          |                 |
|----------|-----------------|
| <b>a</b> | {2, 2, 3, 5, 7} |
| <b>b</b> | {2, 2, 3, 4}    |
| <b>c</b> | {2, 5, 3, 5}    |
| <b>d</b> | {2, 2, 3, 5}    |
| <b>e</b> | {2, 3, 5}       |
| <b>f</b> | {2, 2, 5}       |

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



- |          |                 |
|----------|-----------------|
| <b>a</b> | {2, 5}          |
| <b>b</b> | {3, 5}          |
| <b>c</b> | {2, 3, 3}       |
| <b>d</b> | {3, 5, 4, 3, 3} |
| <b>e</b> | {2, 3, 5}       |
| <b>f</b> | {7, 3, 5}       |

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



- |          |              |
|----------|--------------|
| <b>a</b> | {2, 5, 3}    |
| <b>b</b> | {5, 3}       |
| <b>c</b> | {2, 3}       |
| <b>d</b> | {2, 5, 3, 6} |
| <b>e</b> | {2, 5}       |
| <b>f</b> | {2, 5, 3, 3} |