

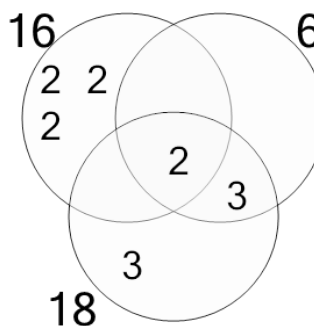


Math worksheet on 'Factoring - Venn Diagrams - 3 Numbers - Populated Venn to Shared Factors (Level 3)'. Part of a broader unit on 'Factoring and Greatest Common Factor - Advanced'

Learn online:

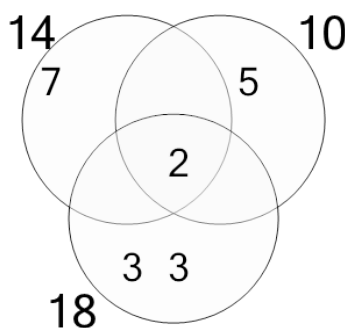
[app.mobius.academy/math/units/factoring\\_and\\_greatest\\_common\\_factor\\_advanced/](http://app.mobius.academy/math/units/factoring_and_greatest_common_factor_advanced/)

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



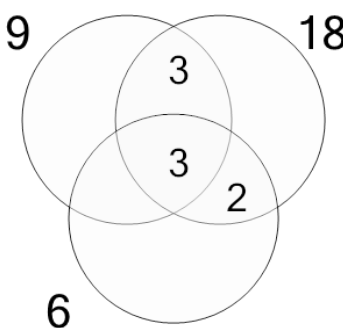
- |          |              |
|----------|--------------|
| <b>a</b> | {6, 5, 4}    |
| <b>b</b> | {3, 6, 6, 2} |
| <b>c</b> | {4, 5, 5}    |
| <b>d</b> | {2}          |
| <b>e</b> | {6}          |
| <b>f</b> | {7}          |

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



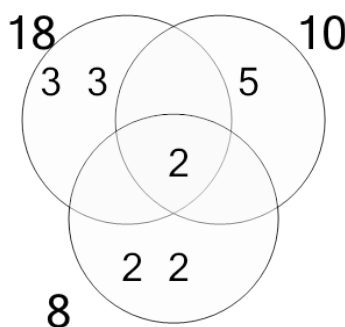
- |          |                 |
|----------|-----------------|
| <b>a</b> | {5}             |
| <b>b</b> | {3, 7, 4, 5}    |
| <b>c</b> | {2, 6, 2, 7, 6} |
| <b>d</b> | {2}             |
| <b>e</b> | {2, 4, 5, 7, 6} |
| <b>f</b> | {2, 3}          |

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



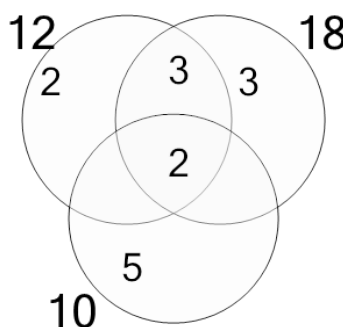
- |          |                 |
|----------|-----------------|
| <b>a</b> | {3, 4}          |
| <b>b</b> | {3}             |
| <b>c</b> | {3, 3, 6, 3, 3} |
| <b>d</b> | {6}             |
| <b>e</b> | {5}             |
| <b>f</b> | {5, 5, 2, 3}    |

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



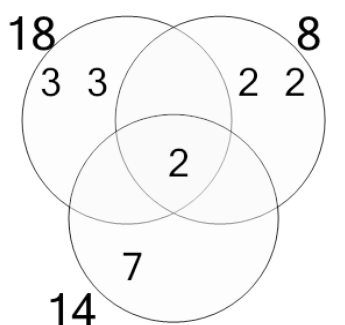
- |          |                 |
|----------|-----------------|
| <b>a</b> | {3, 3, 7, 3}    |
| <b>b</b> | {3, 6, 2}       |
| <b>c</b> | {2, 6, 4, 5, 7} |
| <b>d</b> | {2, 7, 2, 3, 4} |
| <b>e</b> | {2}             |
| <b>f</b> | {4, 2, 4}       |

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



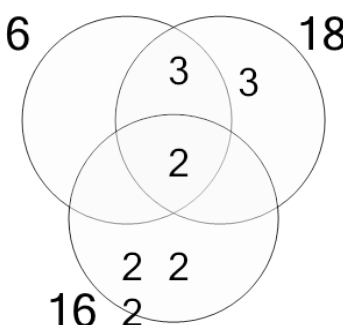
- |          |                 |
|----------|-----------------|
| <b>a</b> | {2}             |
| <b>b</b> | {2, 7, 5, 6, 3} |
| <b>c</b> | {5, 4, 7}       |
| <b>d</b> | {2, 2, 5}       |
| <b>e</b> | {2, 3, 6, 7, 2} |
| <b>f</b> | {7}             |

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



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

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



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