# Factoring - Venn Diagrams - 2 Numbers - To Shared Factors
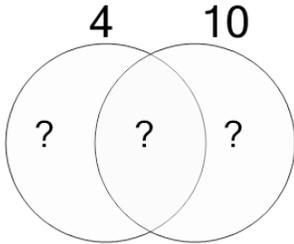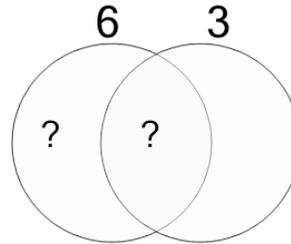
**1** Populate the factor diagram and find the shared prime factors (in center)
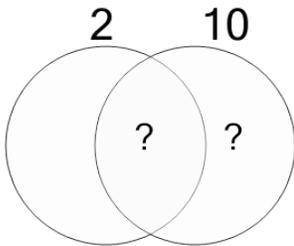
4   10

? ? ?

| | |
|---|---|
| A | {6} |
| B | {5, 5, 7} |
| C | {2, 3} |
| D | {5, 2, 3, 6} |
| E | {2} |
| F | {2, 5} |

**2** Populate the factor diagram and find the shared prime factors (in center)

6   3

? ?

| | |
|---|---|
| A | {7, 4, 6} |
| B | {7} |
| C | {4} |
| D | {3} |
| E | {4, 3, 5, 4} |
| F | {3, 5} |

**3** Populate the factor diagram and find the shared prime factors (in center)

2   10

? ?

| | |
|---|---|
| A | {3, 7, 6} |
| B | {2, 4} |
| C | {5, 5, 3} |
| D | {2, 2, 5, 7, 3} |
| E | {2} |
| F | {7} |

**4** Populate the factor diagram and find the shared prime factors (in center)

6   10

? ? ?
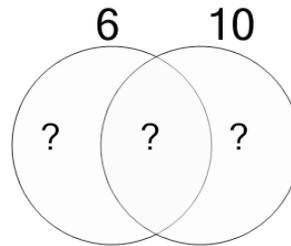
| | |
|---|---|
| A | {2, 2, 3, 4, 3} |
| B | {6, 7, 5} |
| C | {2} |
| D | {2, 2} |
| E | {4, 7, 7} |
| F | {2, 3} |

**5** Populate the factor diagram and find the shared prime factors (in center)

12   8

? ? ?
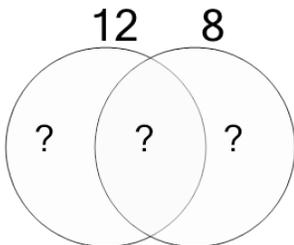
| | |
|---|---|
| A | {2, 2, 4} |
| B | {2, 5, 5, 4} |
| C | {2, 2} |
| D | {2, 2, 6} |
| E | {3, 2, 7, 3, 4} |
| F | {2} |

**6** Populate the factor diagram and find the shared prime factors (in center)

8   2

? ?
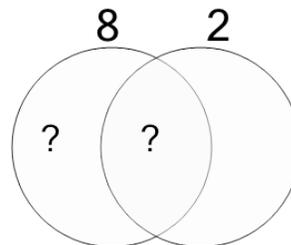
| | |
|---|---|
| A | {4, 7, 2} |
| B | {4, 4, 3} |
| C | {4, 4, 4, 4} |
| D | {2} |
| E | {2, 2} |
| F | {2, 7} |

**7** Populate the factor diagram and find the shared prime factors (in center)

4   12

? ?
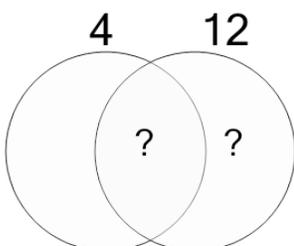
| | |
|---|---|
| A | {2, 2, 6} |
| B | {2, 2} |
| C | {2} |
| D | {2, 6, 3, 4, 4} |
| E | {2, 2, 2} |
| F | {2, 2, 3} |

**8** Populate the factor diagram and find the shared prime factors (in center)

10   8

? ? ?

| | |
|---|---|
| A | {3} |
| B | {6} |
| C | {7} |
| D | {2} |
| E | {2, 4} |
| F | {7, 5, 6, 3} |

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