



## Factoring - Identifying Large Factored Numbers - 2 Factors



**1** Factor 162 to find x, and b

$$162 = x^4 \cdot b^1$$

|   |          |   |          |
|---|----------|---|----------|
| A | x=2, b=5 | B | x=2, b=5 |
| C | x=3, b=5 | D | x=3, b=2 |
| E | x=3, b=5 |   |          |

**2** Factor 225 to find m, and r

$$225 = m^2 \cdot r^2$$

|   |          |   |           |
|---|----------|---|-----------|
| A | m=5, r=2 | B | m=5, r=11 |
| C | m=5, r=2 | D | m=3, r=2  |
| E | m=5, r=3 |   |           |

**3** Factor 375 to find m, and x

$$375 = m^1 \cdot x^3$$

|   |          |   |           |
|---|----------|---|-----------|
| A | m=3, x=5 | B | m=5, x=11 |
| C | m=3, x=7 | D | m=3, x=7  |
| E | m=3, x=7 |   |           |

**4** Factor 108 to find d, and z

$$108 = d^3 \cdot z^2$$

|   |           |   |          |
|---|-----------|---|----------|
| A | d=2, z=7  | B | d=2, z=5 |
| C | d=2, z=11 | D | d=3, z=2 |
| E | d=3, z=5  |   |          |

**5** Factor 100 to find m, and y

$$100 = m^2 \cdot y^2$$

|   |           |   |           |
|---|-----------|---|-----------|
| A | m=2, y=5  | B | m=5, y=11 |
| C | m=5, y=7  | D | m=5, y=7  |
| E | m=5, y=11 |   |           |

**6** Factor 160 to find y, and d

$$160 = y^5 \cdot d^1$$

|   |           |   |           |
|---|-----------|---|-----------|
| A | y=2, d=11 | B | y=5, d=7  |
| C | y=2, d=5  | D | y=5, d=11 |
| E | y=5, d=3  |   |           |

**7** Factor 375 to find z, and x

$$375 = z^1 \cdot x^3$$

|   |          |   |          |
|---|----------|---|----------|
| A | z=5, x=2 | B | z=3, x=7 |
| C | z=3, x=2 | D | z=3, x=2 |
| E | z=3, x=5 |   |          |

**8** Factor 225 to find p, and b

$$225 = p^2 \cdot b^2$$

|   |           |   |           |
|---|-----------|---|-----------|
| A | p=3, b=11 | B | p=3, b=11 |
| C | p=5, b=2  | D | p=5, b=3  |
| E | p=3, b=2  |   |           |