



Math worksheet on 'Factoring - Identifying Large Factored Numbers - 2 Factors (Level 3)'. Part of a broader unit on 'Factoring, Multiplication, Division, Fractions - Practice'

Learn online:

[app.mobius.academy/math/units/factoring\\_multiplication\\_division\\_fractions\\_practice/](http://app.mobius.academy/math/units/factoring_multiplication_division_fractions_practice/)

**2** Factor 1000 to find p, and y

$$1000 = p^3 \cdot y^3$$

|          |           |          |           |
|----------|-----------|----------|-----------|
| <b>a</b> | p=5, y=2  | <b>b</b> | p=2, y=11 |
| <b>c</b> | p=5, y=3  | <b>d</b> | p=5, y=11 |
| <b>e</b> | p=5, y=11 |          |           |

**1** Factor 1715 to find z, and x

$$1715 = z^1 \cdot x^3$$

|          |           |          |          |
|----------|-----------|----------|----------|
| <b>a</b> | z=5, x=3  | <b>b</b> | z=5, x=7 |
| <b>c</b> | z=5, x=11 | <b>d</b> | z=5, x=3 |
| <b>e</b> | z=5, x=3  |          |          |

**3** Factor 1225 to find x, and y

$$1225 = x^2 \cdot y^2$$

|          |          |          |          |
|----------|----------|----------|----------|
| <b>a</b> | x=7, y=2 | <b>b</b> | x=5, y=3 |
| <b>c</b> | x=7, y=3 | <b>d</b> | x=5, y=7 |
| <b>e</b> | x=7, y=3 |          |          |

**4** Factor 3025 to find x, and d

$$3025 = x^2 \cdot d^2$$

|          |           |          |           |
|----------|-----------|----------|-----------|
| <b>a</b> | x=5, d=3  | <b>b</b> | x=11, d=5 |
| <b>c</b> | x=5, d=2  | <b>d</b> | x=5, d=3  |
| <b>e</b> | x=11, d=3 |          |           |

**5** Factor 2662 to find d, and c

$$2662 = d^3 \cdot c^1$$

|          |           |          |          |
|----------|-----------|----------|----------|
| <b>a</b> | d=11, c=3 | <b>b</b> | d=2, c=5 |
| <b>c</b> | d=11, c=3 | <b>d</b> | d=2, c=5 |
| <b>e</b> | d=11, c=2 |          |          |

**6** Factor 3773 to find r, and x

$$3773 = r^1 \cdot x^3$$

|          |          |          |           |
|----------|----------|----------|-----------|
| <b>a</b> | r=7, x=2 | <b>b</b> | r=11, x=7 |
| <b>c</b> | r=7, x=5 | <b>d</b> | r=7, x=2  |
| <b>e</b> | r=7, x=2 |          |           |

**7** Factor 10648 to find x, and z

$$10648 = x^3 \cdot z^3$$

|          |           |          |           |
|----------|-----------|----------|-----------|
| <b>a</b> | x=11, z=5 | <b>b</b> | x=11, z=5 |
| <b>c</b> | x=2, z=11 | <b>d</b> | x=2, z=7  |
| <b>e</b> | x=2, z=7  |          |           |