

Name: _____

Prime Factorization and Square Roots

Use prime factors to find the square roots for the following numbers.

$$\text{a) } \sqrt{16} = \sqrt{\frac{(\quad \times \quad) \times (\quad \times \quad)}{\quad \times \quad}}$$

$$\text{b) } \sqrt{49} = \sqrt{\frac{(\quad \times \quad)}{\quad}}$$

$$\text{c) } \sqrt{36} = \sqrt{\frac{(\quad \times \quad) \times (\quad \times \quad)}{\quad \times \quad}}$$

$$\text{d) } \sqrt{81} = \sqrt{\frac{(\quad \times \quad) \times (\quad \times \quad)}{\quad \times \quad}}$$

$$\text{e) } \sqrt{121} = \sqrt{\frac{(\quad \times \quad)}{\quad}}$$

$$\text{f) } \sqrt{100} = \sqrt{\frac{(\quad \times \quad) \times (\quad \times \quad)}{\quad \times \quad}}$$

Bonus

$$\text{g) } \sqrt{225} = \sqrt{\frac{(\quad \times \quad) \times (\quad \times \quad)}{\quad \times \quad}}$$
