Name: _____

Prime Factorization and Square Roots

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

a) $\sqrt{16} = \sqrt{\dfrac{(\quad x \quad) \times (\quad x \quad)}{\quad x \quad}}$

$\underline{\qquad\qquad}$

b) $\sqrt{49} = \sqrt{\dfrac{(\quad x \quad)}{\quad}}$

$\underline{\qquad\qquad}$

c) $\sqrt{36} = \sqrt{\dfrac{(\quad x \quad) \times (\quad x \quad)}{\quad x \quad}}$

$\underline{\qquad\qquad}$

d) $\sqrt{81} = \sqrt{\dfrac{(\quad x \quad) \times (\quad x \quad)}{\quad x \quad}}$

$\underline{\qquad\qquad}$

e) $\sqrt{121} = \sqrt{\dfrac{(\quad x \quad)}{\quad}}$

$\underline{\qquad\qquad}$

f) $\sqrt{100} = \sqrt{\dfrac{(\quad x \quad) \times (\quad x \quad)}{\quad x \quad}}$

$\underline{\qquad\qquad}$

Bonus

g) $\sqrt{225} = \sqrt{\dfrac{(\quad x \quad) \times (\quad x \quad)}{\quad x \quad}}$

$\underline{\qquad\qquad}$