

Name: _____ Date: _____

Square Roots Practice Handout

1. Choose at least two of the roots below.
 - a. Prove why each is a perfect square number using prime factors.
 - b. Determine the square root of each and show the process of doing so.

$$\sqrt{576} = \square$$

$$\sqrt{441} = \square$$

$$\sqrt{256} = \square$$

$$\sqrt{729} = \square$$

$$\sqrt{324} = \square$$

$$\sqrt{400} = \square$$

2. Choose at least two of the roots below.

- a. Prove why each is a non-perfect square number using prime factors.
- b. Estimate the square root of each and show the process of doing so.

$$\sqrt{112} = \square$$

$$\sqrt{150} = \square$$

$$\sqrt{45} = \square$$

$$\sqrt{200} = \square$$

$$\sqrt{128} = \square$$

$$\sqrt{24} = \square$$