## **ESTIMATING SQUARE ROOT**

- 1.  $\sqrt{90}$  is between \_\_\_ and \_\_\_ 2.  $\sqrt{150}$  is between \_\_\_ and \_
- 3.  $\sqrt{1}11$  is between \_\_\_ and \_\_\_ 4.  $\sqrt{3}1$  is between \_\_\_ and \_\_\_
- 5.  $\sqrt{80}$  is between \_\_\_ and \_\_\_ 6.  $\sqrt{70}$  is between \_\_\_ and \_\_\_
- 7.  $\sqrt{1}$ 15 is between \_\_\_ and \_\_\_ 8.  $\sqrt{6}$ 1 is between \_\_\_ and \_\_\_
- 9.  $\sqrt{172}$  is between \_\_\_ and \_\_\_ 10.  $\sqrt{5}$  is between \_\_\_ and \_\_\_
- 11.  $\sqrt{7}$  is between \_\_\_ and \_\_\_ 12.  $\sqrt{500}$  is between \_\_\_ and \_\_\_
- 13. Estimate the following square roots to the nearest whole number.
  - a.  $\sqrt{15}$
- b.  $\sqrt{23}$

c.  $\sqrt{23.4}$ 

- d.  $\sqrt{5}$
- e.  $\sqrt{38.4}$

- f.  $\sqrt{50}$
- Estimate the following solutions to the nearest integer.
  - $a^2 = 100$
- **b**.  $b^2 = -33$

- $q^2 = 55$
- **e.**  $X^2 = 67$
- $y^2 = 110$
- 15. Estimate the values of the following square roots to the nearest tenth
  - a.  $\sqrt{7}$
- b.  $\sqrt{136}$

c.  $\sqrt{65}$ 

- d.  $\sqrt{74}$  e.  $\sqrt{119}$

f.  $\sqrt{181}$ 

- **g**.  $\sqrt{38}$
- h.  $\sqrt{9}$ 2

i  $\sqrt{18}$ 

- Simplify  $\sqrt{160}$ 16.
- Simplify  $\sqrt{54}$ 17.
- Simplify  $\sqrt{3}$ 2 18.