## ESTIMATING SQUARE ROOT

1. $\sqrt{90}$ is between
2. $\sqrt{111}$ is between $\qquad$ and $\qquad$
3. $\sqrt{80}$ is between $\qquad$ and ---7. $\sqrt{115}$ is between $\qquad$ and $\qquad$
4. $\sqrt{1} 72$ is between $\qquad$ and 11. $\sqrt{7}$ is between $\qquad$ and
5. $\sqrt{150}$ is between ____ and -
6. $\sqrt{3} 1$ is between $\qquad$ and __-_-
7. $\sqrt{70}$ is between _-_- and _---
8. $\sqrt{6} 1$ is between
9. $\sqrt{5}$ is between $\qquad$ and
10. $\sqrt{5} 00$ is between ___-_ and $_{\text {_-_- }}$
11. 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. $\sqrt{50}$
12. Estimate the following solutions to the nearest integer.
a. $\mathrm{a}^{2}=100$
b. $b^{2}=-33$
c. $\quad e^{2}=3.2$
d. $\quad g^{2}=55$
e. $x^{2}=67$
f. $y^{2}=110$
13. 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. $\sqrt{92}$
i $\sqrt{18}$
14. Simplify $\sqrt{160}$
15. Simplify $\sqrt{54}$
16. Simplify $\sqrt{3} 2$
