

# Estimating Square Roots

Name \_\_\_\_\_  
Class \_\_\_\_\_

Estimate to the nearest whole number. Label as rational(Q) or irrational(I).

1.  $\sqrt{84}$

2.  $\sqrt{10}$

3.  $\sqrt{68}$

4.  $\sqrt{98}$

5.  $-\sqrt{121}$

6.  $-\sqrt{78}$

7.  $\sqrt{27}$

8.  $-\sqrt{40}$

9.  $-\sqrt{130}$

10.  $\sqrt{9.8}$

11.  $\sqrt{17.8}$

12.  $-\sqrt{80.9}$

13.  $-\sqrt{50}$

14.  $\sqrt{8}$

15.  $\sqrt{64}$

16.  $-\sqrt{400}$

17.  $-\sqrt{\frac{4}{9}}$

18.  $-\sqrt{\frac{121}{36}}$

19.  $\sqrt{\frac{49}{64}}$

20.  $\sqrt{\frac{256}{441}}$

21.  $\sqrt{171}$

22.  $\sqrt{286}$

23.  $\sqrt{529}$

24.  $\sqrt{83}$

# More About Square Roots

A.  $\sqrt{2} = \underline{\hspace{2cm}}$        $\sqrt{10} = \underline{\hspace{2cm}}$        $\sqrt{15} = \underline{\hspace{2cm}}$        $\sqrt{3} = \underline{\hspace{2cm}}$

B.  $\sqrt{30} = \underline{\hspace{2cm}}$        $\sqrt{5} = \underline{\hspace{2cm}}$        $\sqrt{7} = \underline{\hspace{2cm}}$        $\sqrt{99} = \underline{\hspace{2cm}}$

C.  $\sqrt{71} = \underline{\hspace{2cm}}$        $\sqrt{17} = \underline{\hspace{2cm}}$        $\sqrt{8} = \underline{\hspace{2cm}}$        $\sqrt{52} = \underline{\hspace{2cm}}$

D.  $\sqrt{250} = \underline{\hspace{2cm}}$        $\sqrt{500} = \underline{\hspace{2cm}}$        $\sqrt{12} = \underline{\hspace{2cm}}$        $\sqrt{33} = \underline{\hspace{2cm}}$

E.  $\sqrt{75} = \underline{\hspace{2cm}}$        $\sqrt{150} = \underline{\hspace{2cm}}$        $\sqrt{21} = \underline{\hspace{2cm}}$        $\sqrt{40} = \underline{\hspace{2cm}}$

F.  $\sqrt{56} = \underline{\hspace{2cm}}$        $\sqrt{60} = \underline{\hspace{2cm}}$        $\sqrt{85} = \underline{\hspace{2cm}}$        $\sqrt{90} = \underline{\hspace{2cm}}$

G.  $\sqrt{110} = \underline{\hspace{2cm}}$        $\sqrt{125} = \underline{\hspace{2cm}}$        $\sqrt{155} = \underline{\hspace{2cm}}$        $\sqrt{37} = \underline{\hspace{2cm}}$

H.  $\sqrt{65} = \underline{\hspace{2cm}}$        $\sqrt{95} = \underline{\hspace{2cm}}$        $\sqrt{240} = \underline{\hspace{2cm}}$        $\sqrt{525} = \underline{\hspace{2cm}}$

I.  $\sqrt{80} = \underline{\hspace{2cm}}$        $\sqrt{600} = \underline{\hspace{2cm}}$        $\sqrt{825} = \underline{\hspace{2cm}}$        $\sqrt{130} = \underline{\hspace{2cm}}$

J.  $\sqrt{53} = \underline{\hspace{2cm}}$        $\sqrt{27} = \underline{\hspace{2cm}}$        $\sqrt{35} = \underline{\hspace{2cm}}$        $\sqrt{1,000} = \underline{\hspace{2cm}}$