

Name: key Period: \_\_\_\_\_ Score: \_\_\_\_\_ / \_\_\_\_\_ = \_\_\_\_\_ % = \_\_\_\_\_

## HW 6-6 - Estimate & Order Rational Numbers

DO NOT USE A CALCULATOR ON THIS ASSIGNMENT!

Between which two consecutive integers is each square root?

1.  $\sqrt{21}$  4 & 5

4.  $\sqrt{110}$

7.  $\sqrt{373}$  19 & 20

2.  $\sqrt{5}$

5.  $\sqrt{43}$  6 & 7

8.  $\sqrt{218}$

3.  $\sqrt{87}$  9 & 10

6.  $\sqrt{270}$

9.  $\sqrt{20}$  4 & 5

Estimate each square root to the tenths place.

10.  $\sqrt{12}$

13.  $\sqrt{56}$  7.5

11.  $\sqrt{32}$  5.6  
or 5.7

14.  $\sqrt{126}$

12.  $\sqrt{140}$

15.  $\sqrt{27}$  5.2

Fill in each blank with  $>$ ,  $<$ , or  $=$  to make a true statement.

16.  $\sqrt{10}$  \_\_\_\_\_ 3.4

21.  $\sqrt{10}$   $<$   $\sqrt{15}$

17. 7 \_\_\_\_\_  $\sqrt{7}$

22.  $4^2$  \_\_\_\_\_  $\sqrt{256}$

18.  $7^2$  \_\_\_\_\_  $-\sqrt{49}$

23. 8 \_\_\_\_\_  $\sqrt{58}$

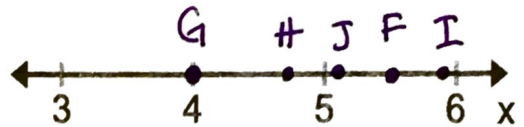
19.  $\sqrt{15}$  \_\_\_\_\_ 3.5

20.  $-\sqrt{100}$  \_\_\_\_\_ 10

Place each of the point on the number line given.

24.  $A = 3.2$   
 $B = \sqrt{15}$   
 $C = \sqrt{8}$   
 $D = 4.1$   
 $E = \sqrt{20}$

25.  $F = \sqrt{30}$   
 $G = \sqrt{16}$   
 $H = 4.7$   
 $I = \sqrt{35}$   
 $J = \sqrt{26}$



Order the following from least to greatest.

26. 7.3,  $\sqrt{36}$ ,  $\sqrt{40}$ , 6.9,  $\sqrt{49}$ , 7.4%

27. 11,  $\sqrt{102}$ , 10.8,  $\sqrt{123}$ , 10.5, 120%

120%,  $\sqrt{102}$ , 10.5, 10.8, 11,  $\sqrt{123}$

28.  $\sqrt{289}$ , 16.5,  $\sqrt{256}$ , 17.2,  $\sqrt{280}$