Lesson 7.4T ~ Square Roots and Cube Roots

Name_____ Period_____ Date_____

1. Complete the table.

Integer	Integer Squared	Perfect Square	Integer Cubed	Perfect Cube
1	1^2	1	1^3	1
2	2^2	4	2^3	8
3	3^2	9	3^3	27
4				
5				
6				
7				
8				
9				
10				

Use the table above to find each value.

2. $\sqrt{9}$= _____ **3.** $\sqrt[3]{64}$ = _____ **4.** $\sqrt{81}$ = _____

5. $\sqrt[3]{1000}$ = _____ **6.** $\sqrt{25}$ = _____ **7.** $\sqrt[3]{1}$ = _____

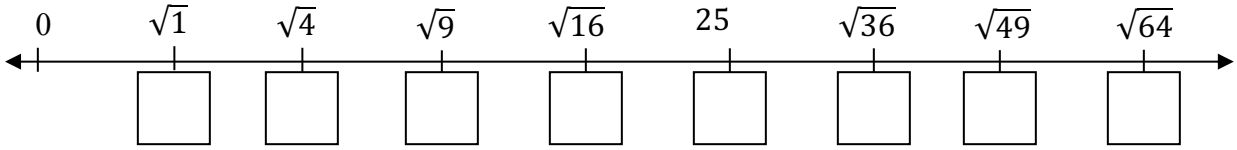
8. A square has an area of 36 square meters.

a. What is the length of one side of the square?

b. Draw the square and label all side lengths.

c. What is the perimeter of the square? _____ meters

9. Fill in the integer values of each square root on the number line.



Use the number line above to help determine the two positive integers each square root falls between.

10. $\sqrt{5}$ Between _____ and _____

11. $\sqrt{59}$ Between _____ and _____

12. $\sqrt{13}$ Between _____ and _____

13. $\sqrt{26}$ Between _____ and _____

14. $\sqrt{15}$

a. What two integers is $\sqrt{15}$ between? _____ and _____

b. Which integer is it closer to? _____

c. Approximate $\sqrt{15}$ to the nearest tenth. _____

Use the number line above to approximate each square root to the nearest tenth.

15. $\sqrt{5} \approx$ _____

16. $\sqrt{27} \approx$ _____

17. $\sqrt{40} \approx$ _____

18. $\sqrt{61} \approx$ _____