

Name \_\_\_\_\_

Period \_\_\_\_\_

## Practicing with Square Roots

(Regular)

Solve. Round to the nearest tenth's place when necessary.

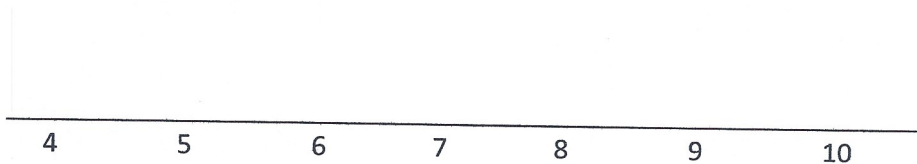
1)  $\sqrt{25} + \sqrt{121} =$

2)  $\sqrt{81} + \sqrt{144} =$

3)  $\sqrt{49} + \sqrt{35} \approx$

4)  $\sqrt{22} - \sqrt{14} \approx$

5) Locate  $\sqrt{76}$  on the number line.



Estimate each expression to the nearest whole number if  $x = 6$ ,  $y = 12$ , and  $z = 30$ .

6)  $\sqrt{x + z}$

7)  $\sqrt{2z + 4}$

8)  $\sqrt{2xy}$

- 9) Order  $\sqrt{77}$ , 8,  $\sqrt{83}$ ,  $3^2$ , 10,  $\sqrt{76}$ ,  $\sqrt{144}$ ,  $2^4$  from least to greatest.
- 10) You are designing a square room and you need 225 sq. ft. of area. What is the perimeter of the room?
- 11) The area of a popular square game puzzle is 77 square inches. What is the approximate length of one of the sides of the game board to the nearest whole number?
- 12) Name three numbers with square roots between 4 and 5.