

Name _____

Period _____

Practicing with Square Roots (Accelerated)

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

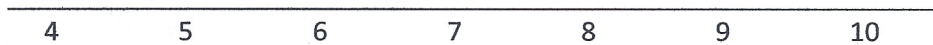
1) $\sqrt{25} + \sqrt{121} =$

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 as a decimal, to the nearest tenth, if $x = 6$, $y = 12$, and $z = 24$.

6) $\sqrt{y - x}$

7) $\sqrt{3z - x}$

8) $\sqrt{2xyz}$

9) Order the following numbers from least to greatest:

$$\sqrt{77}, -8, -\sqrt{83}, (-3)^2, -10, -\sqrt{76}, \sqrt{65}$$

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) Explain why 8 is the best whole number estimate for $\sqrt{68}$.