

#16

Name _____ Block _____

Square Root Homework

- 1.) Find the best integer estimate for each square root to the nearest whole number:

a) $\sqrt{58}$

b) $\sqrt{125}$

c) $\sqrt{160}$

- 2.) Estimate the solution of $y = \sqrt{78}$ to the nearest whole number.

- 3.) If $t = \sqrt{221}$, what is an estimate for the value of t ?

- 4.) Draw a figure that can be used to explain why the square root of 22 is between 4 and 5.

- 5.) Jim and his brother are building a deck. In one space, they need a board that measures $\sqrt{157}$ feet. About how long is the board?

6.) Which is greater, $\sqrt{\frac{25}{4}}$ or $\frac{8}{3}$?

7.) If the area of a square is 196 square meters, what is the length of its side?

8.) If the area of a square is 2.25 square meters, what is the length of its side?

What is its perimeter?

9.) Explain why $\sqrt{\frac{25}{36}}$ is a rational number.

10.) Graph the following square roots on the number line.

