Lesson 5 Practice Problems

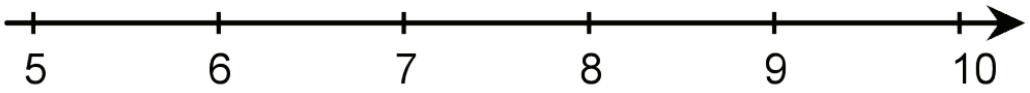
1. a. Explain how you know that $\sqrt{37}$ is a little more than 6.

b. Explain how you know that $\sqrt{95}$ is a little less than 10.

c. Explain how you know that is $\sqrt{30}$ between 5 and 6.

2. Plot each number on the number line:

$$6, \sqrt{83}, \sqrt{40}, \sqrt{64}, 7.5$$



3. The equation $x^2 = 25$ has *two* solutions. This is because both $5 \cdot 5 = 25$, and also $-5 \cdot -5 = 25$. So, 5 is a solution, and also -5 is a solution.

Select **all** the equations that have a solution of -4:

A. $10 + x = 6$

B. $10 - x = 6$

C. $-3x = -12$

D. $-3x = 12$

E. $8 = x^2$

F. $x^2 = 16$

4. Find all the solutions to each equation.

a. $x^2 = 81$

b. $x^2 = 100$

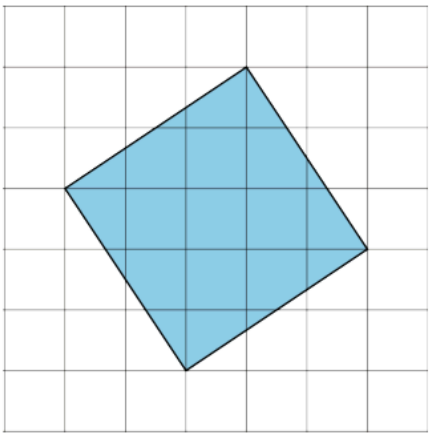
c. $\sqrt{x} = 12$

5. Select all the irrational numbers in the list.

$$\frac{2}{3}, \frac{-123}{45}, \sqrt{14}, \sqrt{64}, \sqrt{\frac{9}{1}}, -\sqrt{99}, -\sqrt{100}$$

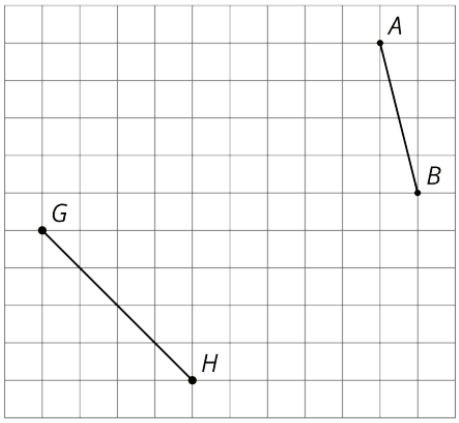
(From Unit 8, Lesson 3.)

6. Each grid square represents 1 square unit. What is the exact side length of the shaded square?



Lesson 4 Practice Problems

1. a. Find the exact length of each line segment.



Lesson 4 Practice Problems

1. a. Find the exact length of each line segment.