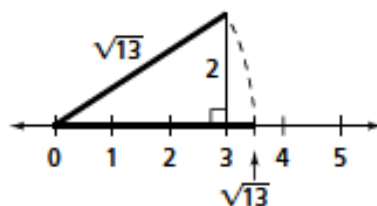


Lessons 6.07 and 6.08 Additional Practice

- 17, 19, 23
- $\sqrt{30}$
 - $\sqrt{55}$
 - $\sqrt{66}$
 - no
 - $(mnp)^2 = 330$
- 1
 - 1
 - 1 cm
 - 2 cm
 - $\sqrt{2}$ cm
 - $\sqrt{3}$ cm
- no; 3 and 4
 - no; 3 and 4
 - yes
 - no; 4 and 5
 - no; 5 and 6
 - 37
- $2\sqrt{6}$
 - $10\sqrt{5}$
 - $63\sqrt{21}$
- $\frac{\sqrt{15}}{\sqrt{5}}, \sqrt{3 \cdot 4}, \sqrt{15}, \sqrt{15} + \sqrt{5}, \sqrt{15 \cdot 5}$
- $\sqrt{6} - 2; 2\sqrt{2} - \sqrt{6}; \sqrt{10} - 2\sqrt{2}; \sqrt{10} - 2$

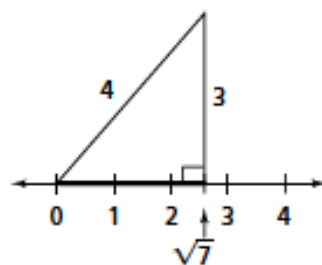
Lessons 6.09 and 6.10 Additional Practice

- $10\sqrt{3}$
 - $4\sqrt{2}$
 - $5\sqrt{2}$
 - $3\sqrt{6}$
 - $2\sqrt{15}$
 - $8\sqrt{3}$
 - $\sqrt{42}$
 - 13
- $2\sqrt{41}$ in.
 - $\frac{5}{12}$ in.
 - $\frac{\sqrt{5}}{4}$ in.
- area: 120 cm^2 ; perimeter: $18\sqrt{6}$ cm
 - area: $12\sqrt{21} \text{ cm}^2$; perimeter: $(12\sqrt{3} + 4\sqrt{7})$ cm
 - area: 20 cm^2 ; perimeter: $9\sqrt{10}$ cm
- $4\sqrt{2}$
 - $9\sqrt{3}$
 - $16\sqrt{4}$ or 32
 - $25\sqrt{5}$
 - $36\sqrt{6}$
 - For any positive number x , $\sqrt{x^5} = x^2\sqrt{x}$.
- Answers may vary. Samples are given.
 - Construct a right triangle with legs 2 units and 3 units. Drop the hypotenuse onto the number line.



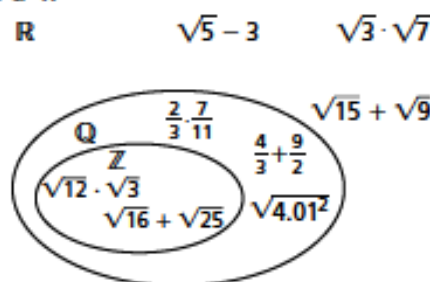
This shows that $\sqrt{13}$ is a real number lying between 3 and 4 on the number line.

- Construct a right triangle with leg 3 units, base $\sqrt{7}$ units, and hypotenuse 4 units. Align the base to the number line.



This shows that $\sqrt{7}$ is a real number lying between 2 and 3 on the number line.

6. a-f.



- 4 and 5
 - 5 and 6
 - 5 and 6
 - 6 and 7
 - 99
- 4 and 5
 - 5 and 6
 - 5 and 6
 - 7 and 8