

Independent Practice

7.1

NAME _____

Module 7 Ratio, Proportion, and Percent
Lesson 1 Square Roots

1. Model the square number 36.

Evaluate.

2. $\sqrt{64}$

3. $3 + \sqrt{9}$

4. $6^2 + \sqrt{100}$

5. $\sqrt{225}$

6. $\sqrt{169} - 13$

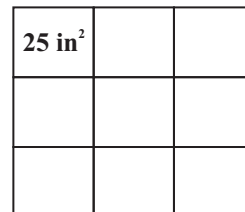
7. $\sqrt{36} + \sqrt{49} + \sqrt{81}$

8. $3^2 + \sqrt{144} + 2^2$

9. $\sqrt{1} + \sqrt{4}$

10. $\sqrt{1600} - 4^2$

11. A small square window has an area of 25 square inches. Nine of these small windows are arranged to form one larger window as shown. What is the perimeter of the large window?



12. Ms. Castillo's square yard has a perimeter of 160 feet. One bag of fertilizer covers 200 square feet. How many bags of fertilizer does Ms. Castillo need to fertilize her yard?

Journal

1. Explain why seven is not a square number but nine is a square number.
2. Explain and correct the error shown below.

$$\begin{array}{r} 4^2 + \sqrt{100} \\ 16 + 50 \\ 66 \end{array}$$

3. Does zero have a square root? Explain. Does -4 have a square root? Explain.

Cumulative Review

Evaluate.

1. $|-6| + 7$

2. $-15 - 20$

3. $-100 + 400$

Write the prime factorization of each number.

4. 150

5. 84

Write each number in scientific notation.

6. 740,000,000,000

7. 0.000000002

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Write each number in standard form.

8. 0.00008005

9. 5.6×10^7

Divide.

10. $42 \div 0.008$

11. $6\frac{1}{4} \div 5$