

Name _____ Date _____

**Skills Maintenance****Square Numbers****Activity 1**

Write each number as repeated multiplication, then find its square number.

Model

$$5^2 = \underline{5} \cdot \underline{5} = \underline{25}$$

1. $2^2 = \underline{\quad} \cdot \underline{\quad} = \underline{\quad}$

2. $4^2 = \underline{\quad} \cdot \underline{\quad} = \underline{\quad}$

3. $7^2 = \underline{\quad} \cdot \underline{\quad} = \underline{\quad}$

4. $10^2 = \underline{\quad} \cdot \underline{\quad} = \underline{\quad}$

5. $3^2 = \underline{\quad} \cdot \underline{\quad} = \underline{\quad}$

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Apply Skills

Square Numbers and Square Roots

Activity 1

Find the square root of each number. Remember to include negative numbers. Round decimal numbers to the nearest hundredth.

Model

$$\sqrt{100} \quad \underline{+10} \text{ or } \underline{-10}$$

- | | |
|---|---|
| 1. $\sqrt{49}$ _____ or _____ | 2. $\sqrt{64}$ _____ or _____ |
| 3. $\sqrt{16}$ _____ or _____ | 4. $\sqrt{1}$ _____ or $\underline{-1}$ |
| 5. $\sqrt{63}$ _____ or $\underline{\quad}$ | 6. $\sqrt{81}$ _____ or _____ |
| 7. $\sqrt{121}$ _____ or _____ | 8. $\sqrt{14}$ _____ or _____ |

Activity 2

Find the square roots of sides for different shapes. Be sure to remember these two formulas:

Area of a square

$$A = s^2$$

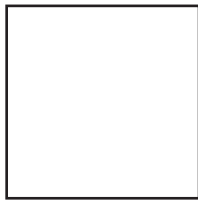
Pythagorean theorem

$$a^2 + b^2 = c^2$$

Do not use a calculator in this exercise. Remember what you know about numbers and square numbers. For example, if you see a number like 25, you know that it is the same as $5 \cdot 5$. That means the square root of 25 is 5. If the number is not one that you know well, just write the square root symbol.

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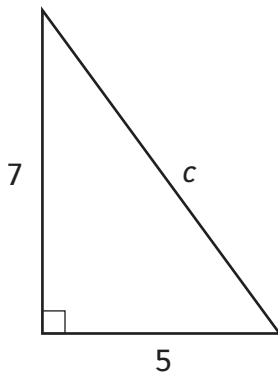
1. What is the length of side a ? _____



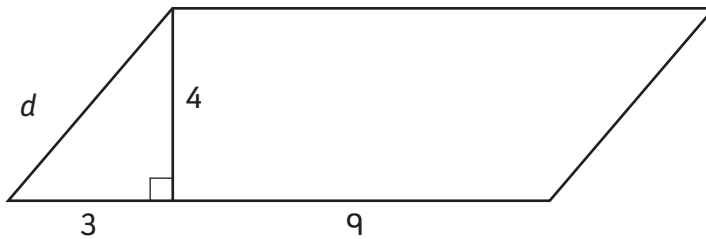
Area of the square = 100

a

2. What is the length of side c ? _____



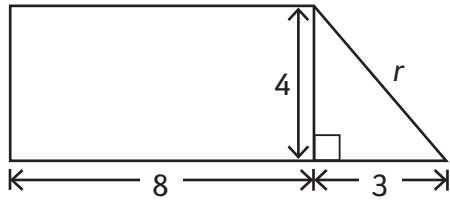
3. What is the length of side d ? _____



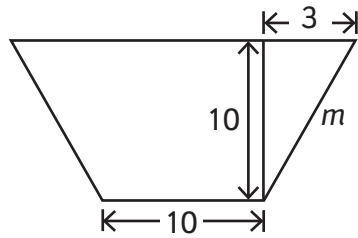
Lesson 2 | Apply Skills

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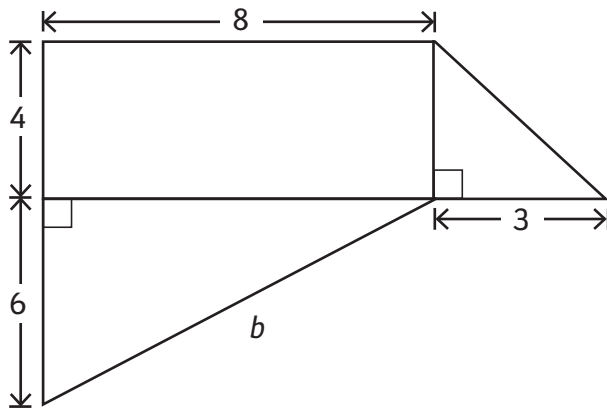
4. What is the length of side r ? _____



5. What is the length of side m ? _____



6. What is the length of side b ? _____



mBook Reinforce Understanding
 Use the mBook *Study Guide* to review lesson concepts.