

SKILL

Skills Readiness**6****Squares and Square Roots**

Square of Numbers	Perfect Squares	Square Roots
The square of a number is the product of the number and itself.	A number is a perfect square if it is of the form n^2 , where n is any whole number.	If a number is a perfect square, with two identical factors, then either factor is the square root of the number.
Example 1	Example 2	Example 3
The square of 5, or 5^2 , is $5 \cdot 5 = 25$.	The number 49 is a perfect square because it can be written as $7 \cdot 7$ or 7^2 .	The square root of 100, or $\sqrt{100}$, is 10 since $10 \cdot 10 = 100$.

Practice on Your Own

Find the square of each number.

1. 3^2 _____ 2. 8^2 _____ 3. 16^2 _____ 4. 25^2 _____

Find each square root.

5. $\sqrt{16}$ _____ 6. $\sqrt{144}$ _____ 7. $\sqrt{400}$ _____ 8. $\sqrt{81}$ _____

Tell whether each number is a perfect square. If so, identify its positive square root.

9. 24 _____ 10. 1 _____ 11. 225 _____ 12. 48 _____

13. 169 _____ 14. 196 _____ 15. 50 _____ 16. 1000 _____

Check

Find the square or square root of each number.

17. 7^2 _____ 18. $\sqrt{25}$ _____ 19. 12^2 _____ 20. $\sqrt{100}$ _____

Tell whether each number is a perfect square. If so, identify its positive square root.

21. 36 _____ 22. 75 _____ 23. 121 _____ 24. 65 _____