

Name: _____

Date: _____

Lesson 1.4 Squares and Square Roots

Find the square of each number.

1. 8 _____

2. 9 _____

3. 13 _____

4. 20 _____

5. 27 _____

6. 31 _____

Find the square root of each number.

7. 196 _____

8. 256 _____

9. 900 _____

10. 324 _____

11. 576 _____

12. 484 _____

Solve.

13. List the perfect squares between 100 and 500 that are even numbers.

14. Find the square root of $2 \times 2 \times 5 \times 7 \times 7 \times 5$.

15. The area of a square is 144 square inches. Find the perimeter of the square.

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Find the value of each of the following.

16. 23^2 _____

17. 40^2 _____

18. $\sqrt{441}$ _____

19. $\sqrt{625}$ _____

20. $11^2 + \sqrt{81}$ _____

21. $6^2 \times \sqrt{100}$ _____

Solve.

22. Given that $17^2 = 289$, find the square of 170.

23. Given that $290^2 = 84,100$, find the square of 29.

24. Given that $\sqrt{961} = 31$, evaluate $\sqrt{96,100}$.

25. Given that $\sqrt{562,500} = 750$, evaluate $\sqrt{5,625}$.

26. A rectangular game board measures 126 centimeters by 90 centimeters. The game board is divided into small squares of equal size.

a) Find the longest possible length of the side of one of the small squares. (Hint: Use prime factorization.)

b) Find the least number of squares the game board can be equally divided into.