

CHAPTER **At-Home Practice**
4 **Roots**

Find the two square roots of each number.

1. 36 2. 121 3. 64 4. 900
- _____

Simplify each expression.

5. $\sqrt{25} - 4$ 6. $\sqrt{81} - 9$ 7. $\sqrt{49} + 5$
- _____
8. $\sqrt{36y^8}$ 9. $\sqrt{64x^{16}}$ 10. $\sqrt{81z^{24}}$
- _____

Each square root is between two integers. Name the integers.

11. $\sqrt{11}$ 12. $\sqrt{72}$ 13. $\sqrt{60}$
- _____

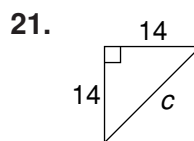
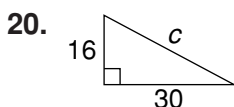
Use a calculator to find each value. Round to the nearest tenth.

14. $\sqrt{72}$ 15. $\sqrt{34.5}$ 16. $\sqrt{824}$
- _____

Find a real number between each pair of numbers.

17. $4\frac{2}{7}$ and $4\frac{3}{7}$ 18. $\sqrt{9}$ and 5 19. $\frac{-1}{121}$ and 0
- _____

Find the length of the hypotenuse in each triangle.



Answers: 1. 6, -6 2. 11, -11 3. 8, -8 4. 30, -30 5. 5, -5 6. 9, -9 7. 7, -7 8. 6, -6 9. 8, -8 10. 9, -9 11. 3 and 4 12. 8 and 9 13. 8 and 7 14. 8.5 15. 5.9 16. 28.7 17. 4 $\frac{14}{5}$ 18. 4 19. - $\frac{200}{1}$ 20. $c = 34$ 21. $c = 19.8$

Family Fun***Be a Square*****Directions**

Cut out the cards and shuffle them. Randomly place the cards face down. Taking turns with your partner, choose two cards and try and match the square root to the perfect square. When you find a pair, keep the cards. If you do not have a match, return each card face down in its original spot. The player with the most matches wins.

$\sqrt{4}$

$\sqrt{9}$

$\sqrt{16}$

$\sqrt{25}$

$\sqrt{36}$

$\sqrt{49}$

$\sqrt{64}$

$\sqrt{81}$

2

3

4

5

6

7

8

9