Squares and Square Roots Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

FLEX due 2/15 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_Period: \_\_\_\_\_\_\_\_\_\_\_\_

1. What is the square of 5? 3. Find the square of 16
2. Find the value of (-21)2. 4. What is the value of (-3)2?

Find each square root.

1. √64 6. √900 7. √169 8. √0.81

9. Robert loves to play baseball and he is trying to get faster at running the bases, but he doesn’t know the distance between each base. So, he looked up the blue prints for a regulation baseball field. Sadly, the blueprints only give him the area inside all the bases, which is 4230 square feet. Since the bases make a square, what is the distance in between each base? If necessary, round to the nearest hundredth.

10. The radius of a clock 17 inches. What is the smallest square area of the box the clock will fit in?

11. A square parking lot has an area of 9640 square feet. If every car has a width of 4 feet, how many cars can park along one side of the parking lot?

12. Kim, Paige, and Lauren are all making a poster about dogs. They all want to share the work equally and the poster is 60×100. What is the area each of them gets to decorate? If each section is a square, to the nearest tenth, what is the length of the sides of each person’s section?

13. Drake has an oven with two square racks and each rack has an area of 100 in2. What is the length of each side of the oven racks and how many 5×5 pans of brownies can Drake fit in the oven?

14. Betty has a square room and all of her furniture is square too. The area of her room is 324 ft2. She has a bed with an area of 100 ft2, a dresser with an area of 36 ft2, and a bedside table with an area of 9 ft2. Can Betty fit all of her furniture along one wall? If not, give at least three combinations of two furniture pieces she put along one wall?

15. Each step Mark takes is 2 ½ feet long. How many ***full*** steps would it take Mark to walk around the perimeter of a square park with the area of 144 ft2?