Must work out problems on another paper and show all steps.

- 1. The volume of a cube is 125 cubic centimeters. How many centimeters long is each edge of the cube?
- 2. Erin knows that the length of the side of her square garden, in feet, is twice the square root of 121 or $2(\sqrt{121})$. What is the length of Erin's garden?
- **3.** What is the value of $\sqrt{16}$?
- 4. What is the value of *x* in the equation $x^2 = 49$?
- 5. What is the square root of 0.16?
- 6. What would be the seventh term in the square root pattern below?

√<u>144</u>, √<u>121</u>, √<u>100</u>, √<u>81</u>...

- 7. What is the value of $\sqrt{4^2}$?
- 8. What is the value of $\sqrt[3]{64}$
- 9. If $\sqrt{25} = 5$ then, _____ cm² is the area of a square whose sides are _____ cm long.
- **10.** The area of a square garden is 36 ft². What is the perimeter of the garden?
- 11. Tyler built a square cage for his chickens. The cage has an area of 169 ft². What is the length of one side of the cage?
- 12. If $x^2 = 7$ what is a value of x?
- **13.** A cube has a volume of 216 cm³. What is the side length of the cube?
- 14. The volume of a cube is 1,728 cubic inches. The volume of a second cube is 729 cubic inches. What is the difference between the length of the sides of the two cubes?
- **15.** What is the value of the expression $\sqrt[3]{1000}$?
- **16.** The area of a square classroom is 144 ft². How long is one side of the classroom?