Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

FORMULAS: *Volume of a cube = s3 Surface Area of a cube = 6s2* **7.2B Homework**

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| 1. Find the volume of a cube with side length 5 in. | 2. Find the surface area of a cube with side length of  5 in. |
| 3. Find the side length of a cube with volume of  216 cm3 | 4. Find the side length of a cube with a surface area of  216 cm2 |
| 5. Find the side length of a cube with a volume of  27,000 cubic inches. | 6. Find the side length of a cube with a surface area of  600 ft2 |
| 7. Find the surface area of a cube with a volume of  125 in3 | 8. . Find the surface area of a cube with a volume of  64 ft3 |
| 9. (REVIEW FROM 7.1) The area of a circle is $314π in^{2}$. Find the radius. | 10. (REVIEW FROM 7.1) The area of a circle is 200.96 cm2. Find the radius of  the circle. Use 3.14 for $π.$ |
| 11. Evaluate the expression (7.1 REVIEW) $12+8\sqrt{16}$ | 12. Evaluate the expression (7.1 REVIEW) $\frac{1}{2}+ \sqrt{\frac{72}{2}}$ |
| 13. Evaluate the expression (7.2 REVIEW) $\left(\sqrt[3]{-125}\right)^{3}+75$  | 14. Evaluate the expression (7.2 REVIEW) $25+2\sqrt[3]{-64}$ |

SOLUTIONS: 1) 125in3 2) 150in2 3) 6cm 4) 6cm 5) 30in 6) 10ft

7) 150in2 8) 96ft2 9) 17.72in. 10) 8cm 11) 14.18 12) $6\frac{1}{2}$ 13) -50 14) 17