Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Volume Review Homework**

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| C:\replacearts\Blue Assessment Book\Blue Chapter 8 AB\Arts\PNGs\mscc8_ab_0800_29.png1.) Find the volume | 2.) Find the volume. Round to the nearest tenth.  C:\replacearts\Blue Assessment Book\Blue Chapter 8 AB\Arts\PNGs\mscc8_ab_0800_31.png |
| C:\replacearts\Blue Assessment Book\Blue Chapter 8 AB\Arts\PNGs\mscc8_ab_0800_34.png3.) Find the volume. | 4.) Find volume.    8in  6in  4in |
| 5.) Find the volume. Round to the nearest tenth.  5in  14in | 6.) Find x if volume = 7,234.56in3.  x in.. |
| 7.) Find x if volume = 339.12 cm3  *x*  6 cm | 8.) Find x if volume = 351.68 ft3  7 ft  x |
| 9.) You are filling up a cylindrical sandbox with sand. It has a diameter of 6 ft and a height of 1.5 feet. About how many gallons of sand can the sandbox contain? Round your answer to the nearest whole number. (1 ft3 ≈ 7.48 gal) | C:\replacearts\Blue Assessment Book\Blue Chapter 8 AB\Arts\PNGs\mscc8_ab_0800_25.png10.) Are the solids similar? Explain your reasoning. |
| 11.) Figure A has a diameter of 3 cm and figure B has a diameter of 6cm. How many times larger is the volume of figure B than Figure A?  **B**  **A** | 12.) The solids below are similar. Find the value of x.  3cm  6cm  15 in  x |

**Answer Key:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.) 2034.72 ft3 | | 2.) 1266.5 mm3 | | | 3.) 20569 mm3 | 4.) 301.44 + 452.16 = 753.6 in3 | | 5.) 261.7 + 1099 = 1360.7 in3 | | |
| 6.) 12 in | 7.) 9 cm | | 8.) 4 ft | 9.) V = 42.39 ft3; 317 gal | | | 10.) No, cross products are not the same | | 11.) =  8 times | 12.) 6.4 in |