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.8in6in4in |
| 5.) Find the volume. Round to the nearest tenth.5in14in | 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 ft37 ftx |
| 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. 3cm6cm15 inx |

**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.) $\frac{113.04}{14.13}$ = 8 times | 12.) 6.4 in |