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

**8.1A NOTES – Volumes of Cylinders**

*Objective: Find the volume of a cylinder. Solve word problems involving volume of cylinders. CCSS: 8.G.9*

*HW: (8.1A) p. 338 #3-12 all.*

YOU TUBE VIDEO: [https://www.youtube.com/watch?v=Bb\_XJ7UPDlM](https://ex2010.sandi.net/owa/redir.aspx?C=-YQZAcp8qM0S75R4aQ3vkcSXLuaVtPSHtxrpUOIDvyMlS4y1Ev3TCA..&URL=https%3a%2f%2fwww.youtube.com%2fwatch%3fv%3dBb_XJ7UPDlM)

\*\*READ Examples 1 on p. 336\*\* WHEN CALCULATING USE “”

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| --- |
| FORMULA FOR VOLUME OF A CYLINDER: |

**FIND THE VOLUME FOR THE CYLINDERS. ROUND TO THE NEAREST TENTH.**

|  |  |
| --- | --- |
| **1** | **2** |
| **3** | **4** |
| **Example 1: HOW MUCH SALSA IS MISSING FROM THE JAR?**    The height of the jar is \_\_\_\_ cm.  There is \_\_\_ cm of salsa remaining in the jar.  Therefore the empty space is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  The radius of the jar is \_\_\_\_\_\_\_ cm.  The VOLUME FOR THE EMPTY SPACE IS … | |

BACK 🡪

|  |
| --- |
| **Example 2: About how many gallons of water does the watercooler bottle contain? Round to the nearest gallon.** |
| 1. A jelly jar has a radius of 3 centimeters and a height of 8 centimeters. The jelly remaining in the jar has a height of 3 centimeters. How much jelly is missing from the jar? Round your answer to the nearest tenth. |
| 2. A cylindrical tower has a diameter of 15 meters and a height of 5 meters. About how many gallons of water can the tower contain? (1 m3 264 gal). Round your answer to the nearest gallon. |

**Solutions: \* my answer is in pi NOT 3.14**

**1**. about 141.4 cm3 **2.** 233,263 gal

**My Favorite Mistake**

**Find the volume of the cylinder**

