Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table # \_\_\_\_ Per \_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_

**8.1B Homework**

(Finding missing dimensions of cylinders given volume)

**Use** $π$ **when calculating**

Find the missing dimension of the cylinder.

|  |
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| 1. Find the height of a cylinder with volume of 769.7 in3 and radius of 7 in.
 |
| 1. Find the height of a cylinder with volume of 282.7 mm3 and radius of 3 mm.
 |
| 1. Find the height of a cylinder with volume of$288π$ cm3 and radius of 6 cm.
 |

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| 1. Find the **diameter** of a cylinder with volume of $90π$ cm3 and a height of 10 cm.
 |
| 1. Find the radius of a cylinder with a volume of 245$ π$ in3 and a height of 5 in.
 |
| 1. Find the radius of a cylinder with a volume of 791.7 m3 and a height of 7 m.
 |

Solution: 1) $≈5 in$ 2) $≈$10mm 3) 8cm 4) 6cm 5) 7in 6) $≈$ 6m