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

**8.1B Homework**

(Finding missing dimensions of cylinders given volume)

**Use 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 cm3 and radius of 6 cm. |

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| 1. Find the **diameter** of a cylinder with volume of cm3 and a height of 10 cm. |
| 1. Find the radius of a cylinder with a volume of 245 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) 2) 10mm 3) 8cm 4) 6cm 5) 7in 6) 6m