

# Calculating Volume

Name: Answers Date: \_\_\_\_\_

Calculate the volume of each solid.

(1)   
 $A = 6 \times 5 = 30 \text{ m}^2$   
 $A = 36 \text{ m}^2$   
 $V = A \times h = 36 \times 6 = 216 \text{ m}^3$   
 Volume: 216 m<sup>3</sup>

(2)   
 $A = 2 \times 2 + 1 \times 1 = 5 \text{ m}^2$   
 $V = A \times h = 5 \times 5 = 25 \text{ m}^3$   
 Volume: 25 m<sup>3</sup>

(3)   
 $A = 7 \times 10 = 70$   
 $V = 70 \times 10 = 700 \text{ m}^3$   
 Volume: 700 m<sup>3</sup>

(4)   
 $A = 5 \times 1 = 5$   
 $h = 6$   
 $V = A \times h = 5 \times 6 = 30 \text{ mm}^3$   
 Volume: 30 mm<sup>3</sup>

$A = \pi r^2 = \pi \times 4^2 = 50.27$   
 $V = A \times h = 50.27 \times 14 = 703.78 \text{ cm}^3$   
 Volume = \_\_\_\_\_

$d = 8$   
 $r = 4 \text{ cm}$

(6)  $A_0 = \pi \times 10^2 = 314.16$   
 $V = A \times h = 314.16 \times 12 = 3769.9 \text{ m}^3$   
 Volume = \_\_\_\_\_

$r = 10$

(7)  $A = \pi \times 2.5^2 = 19.63$   
 $V = A \times h = 19.63 \times 18 = 353.4 \text{ cm}^3$   
 Volume = \_\_\_\_\_

$r = 2.5$

(8)  $A = \pi \times 4^2 = 50.27$   
 $V = A \times h = 50.27 \times 8 = 402.1 \text{ m}^3$   
 Volume = \_\_\_\_\_

$r = 4 \text{ cm}$

(9)  $A_{\Delta} = b \times h \div 2 = 5 \times 9 \div 2 = 22.5$   
 $V = A \times h = 22.5 \times 2 = 45 \text{ m}^3$   
 Volume: 45 m<sup>3</sup>

(10)  $A = b \times h \div 2 = 8 \times 9 \div 2 = 36 \text{ m}^2$   
 $V = A \times h = 36 \times 4 = 144 \text{ m}^3$   
 Volume: 144 m<sup>3</sup>

(11)  $A = 2 \times 1 + 2 \times 7 = 2 + 14 = 16 \text{ m}^2$   
 $V = A \times h = 16 \times 4 = 64 \text{ m}^3$   
 Volume: 64 m<sup>3</sup>

(12)  $A_{\Delta} = b \times h \div 2 = 10 \times 5 \div 2 = 25 \text{ m}^2$   
 $V = A \times h = 25 \times 3 = 75 \text{ m}^3$   
 Volume: 75 m<sup>3</sup>