

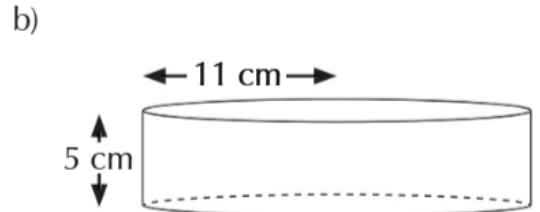
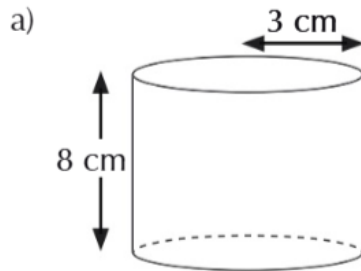
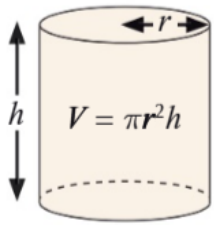
Name - \_\_\_\_\_

Start time - \_\_: \_\_

End time - \_\_: \_\_

## Solve the following.

1. Find the volumes ( $V \text{ cm}^3$ ) of the cylinders below to 2 decimal places, using the formula on the left.



2. Use the formula  $v = u + at$  to find  $v$  if:

a)  $u = 3$ ,  $a = 7$  and  $t = 5$

b)  $u = 2.3$ ,  $a = 4.1$  and  $t = 3.4$

c)  $u = 3$ ,  $a = -10$  and  $t = 5.6$

d)  $u = 12$ ,  $a = 17$  and  $t = 15$

e)  $u = 5.25$ ,  $a = 9.81$  and  $t = 4.39$

f)  $u = -34$ ,  $a = -1.37$  and  $t = 63.25$

3. If  $x = 12$ ,  $y = 2.5$  and  $z = -0.25$ , find  $w$  if:

a)  $w = 0.5x - yz$

d)  $w = \frac{12}{x} + \frac{y}{z}$

b)  $w = -2y^2 + y^2z$

e)  $w = -3x + y^3 - (2z)^2$

c)  $w = x + 2y - 4z$

f)  $w = \frac{x^2 + 3y - 8z}{2y^2}$

1

2

3

4

5

6

7

8

9