

SA of cylinders

1st find area of bases (circles)

2nd find area of rectangle
 $A = lw$

→ $l = \text{circumference}$

$$l = \pi d$$

3rd → $w = h$ of cylinder
Add areas

$$\text{Formula: } SA = 2\pi r^2 + \pi d h$$

From WS given out in class

$$1) SA = 2\pi r^2 + \pi dh$$

$$SA = \underline{2 \times 3.14 \times 36} + \underline{3.14 \times 12 \times 13}$$

$$SA = 226.08 + 489.84$$

$$SA = 715.92 \text{ m}^2$$

$$2) SA = 2\pi r^2 + \pi dh$$

$$SA = \underline{2 \times 3.14 \times 16} + \underline{3.14 \times 8 \times 9}$$

$$SA = 100.48 + 226.08$$

$$SA = 326.56 \text{ m}^2$$

$$3) SA = 2\pi r^2 + \pi dh$$

$$SA = 2 \times 3.14 \times (2.9)^2 + 3.14 \times 5.8 \times 18.7$$

$$SA = \underline{2 \times 3.14 \times 8.41} + \underline{3.14 \times 5.8 \times 18.7}$$

$$SA = 52.8148 + 340.5644$$

$$SA = 393.3792 \text{ mm}^2$$

$$4) SA = 2\pi r^2 + \pi dh$$

$$SA = \underline{2 \times 3.14 \times 4} + \underline{3.14 \times 4 \times 8}$$

$$SA = 25.12 + 100.48$$

$$SA = 125.6 \text{ m}^2$$

$$5) SA = 2\pi r^2 + \pi dh$$

$$SA = \underline{2 \times 3.14 \times 121} + \underline{3.14 \times 22 \times 4}$$

$$SA = 759.88 + 276.32$$

$$SA = 1036.2 \text{ cm}^2$$