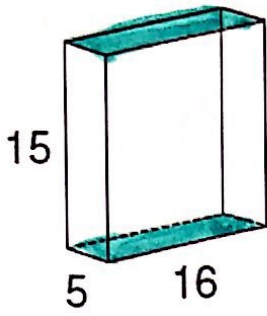


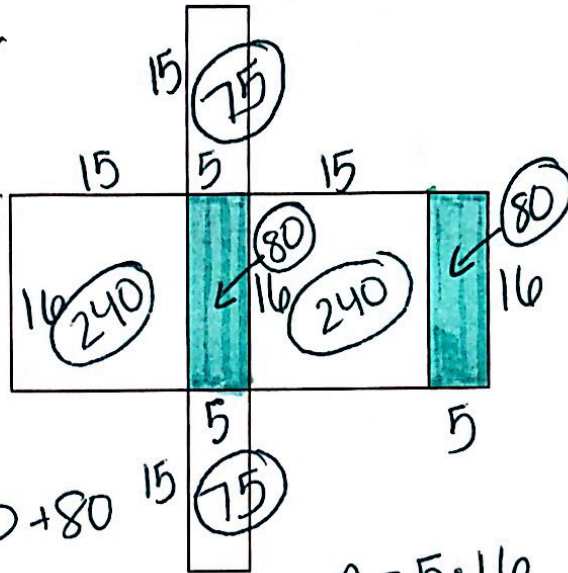
## 8.2 GUIDED NOTES: Surface Area

EX1.



rectangular prism

• 6 rectangles



$$SA = 240 + 75 + 80 + 75 + 240 + 80$$

$$SA = 790$$

$$A = 5 \cdot 16$$

$$A = 80$$

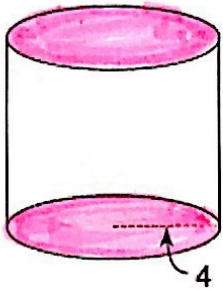
$$A = 15 \cdot 16$$

$$A = 240$$

$$A = 5 \cdot 15$$

$$A = 75$$

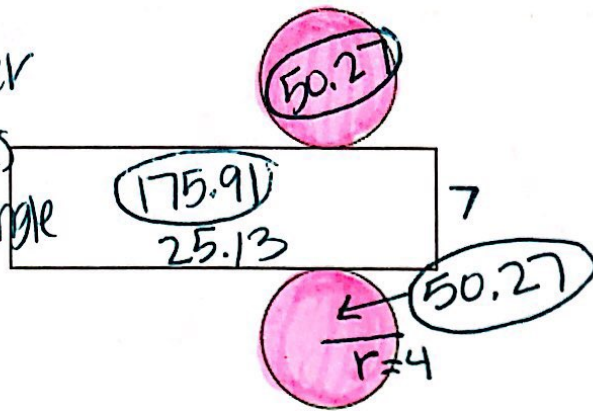
EX2.



Cylinder

• 2 circles

• 1 rectangle



$$\text{Area of } \odot = \pi r^2$$

$$\text{circumference} = 2\pi r$$

$$A = \pi(4)^2$$

$$A = 50.27$$

$$C = 2\pi 4$$

$$C = 25.13$$

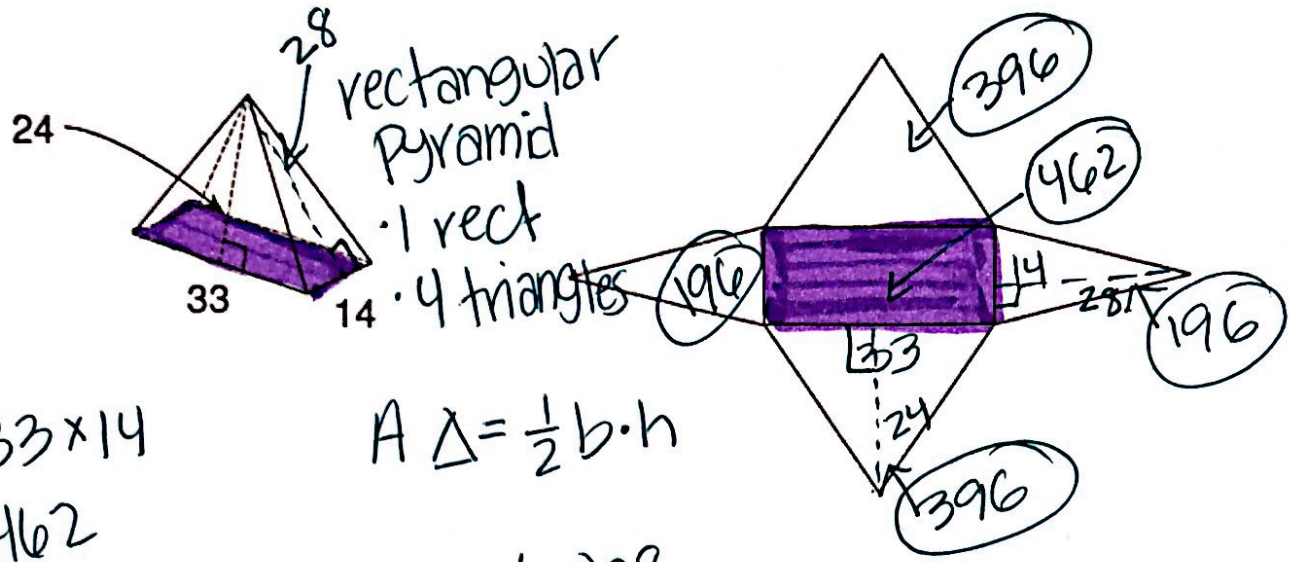
$$A = 25.13 \times 7$$

$$A = 175.91$$

$$SA = 50.27 + 50.27 + 175.91$$

$$SA = 276.45$$

EX3.



$$A = 33 \times 14$$

$$A = 462$$

$$A = \frac{1}{2} (33) \cdot 24$$

$$A = 396$$

$$A_{\Delta} = \frac{1}{2} b \cdot h$$

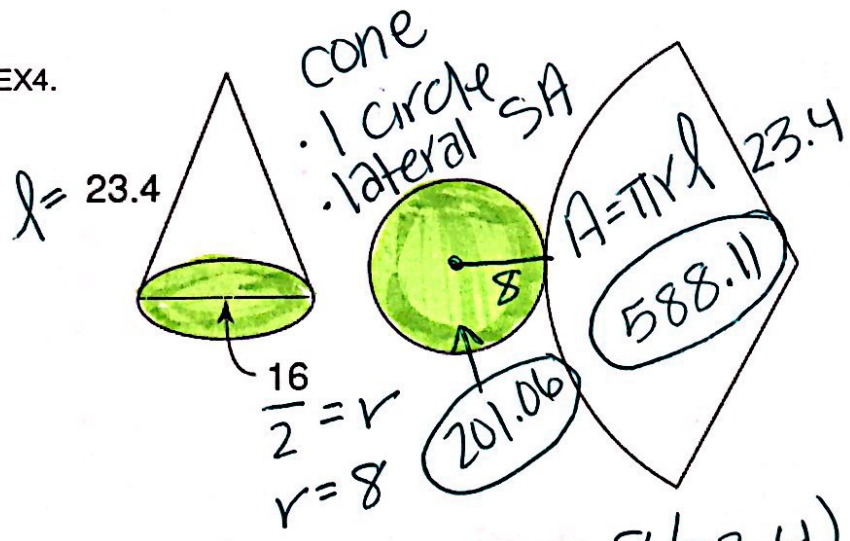
$$A = \frac{1}{2} (14) \cdot 28$$

$$A = 196$$

$$SA = (396)2 + 196(2) + 462$$

$$SA = 1646$$

EX4.



$$l = 23.4$$

$$\frac{16}{2} = r$$

$$r = 8$$

$$A = \pi r l$$

$$A = 588.11$$

$$A = 201.06$$

$$A = \pi 8^2$$

$$A = 201.06$$

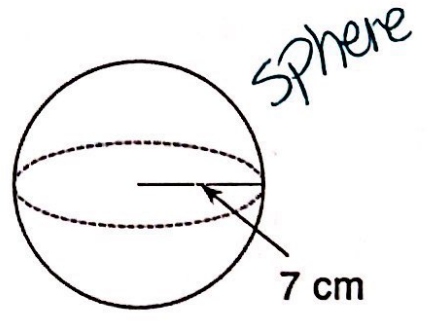
$$A = \pi 8 (23.4)$$

$$A = 588.11$$

$$SA = 201.06 + 588.11$$

$$SA = 789.17$$

EX5.



7 cm

$$SA = 4 \pi r^2$$

$$SA = 4 \pi (7)^2$$

$$SA = 615.75 \text{ cm}^2$$