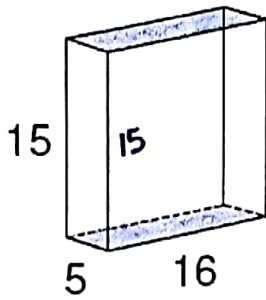


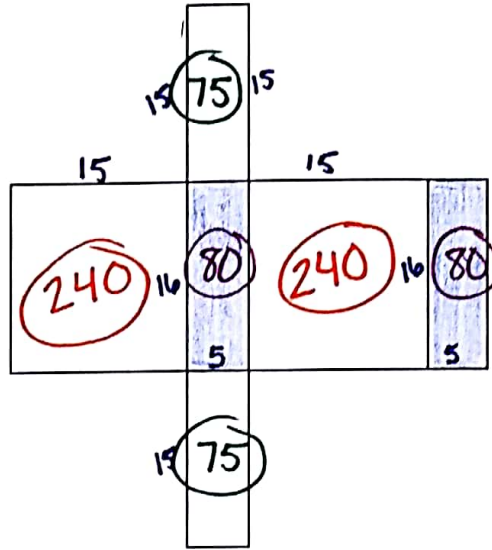
December 7

GUIDED NOTES: Surface Area

EX1.



rectangular prism
• 6 rect.



$$A = 5 \cdot 16$$

$$A = 15 \cdot 16$$

$$A = 80$$

$$A = 240$$

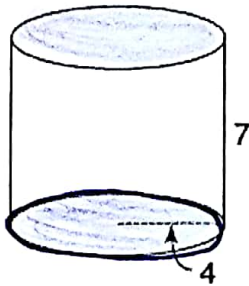
$$A = 5 \cdot 15$$

$$A = 75$$

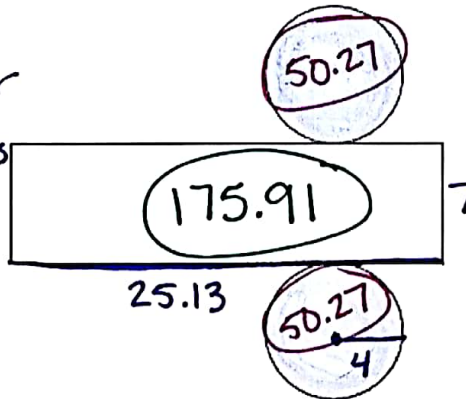
$$SA = 75 + 240 + 80 + 240 + 80 + 75$$

$$SA = 790$$

EX2.



Cylinder
• 2 circles
• 1 rect.



$$C = 2 \cdot \pi \cdot 4$$

$$C = 25.13$$

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

$$A = 50.27$$

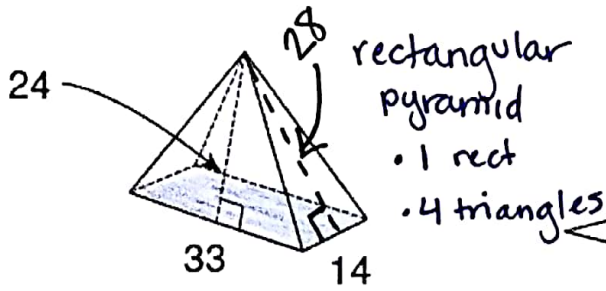
$$A = 25.13 \cdot 7$$

$$SA = 50.27 + 175.91 + 50.27$$

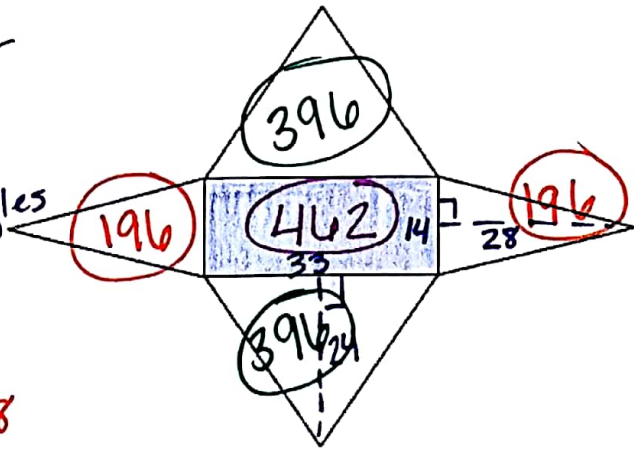
$$SA = 276.45$$

$$A = 175.91$$

EX3.



rectangular pyramid
 • 1 rect
 • 4 triangles



$$A = 33 \cdot 14$$

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

$$A = 462$$

$$A = 196$$

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

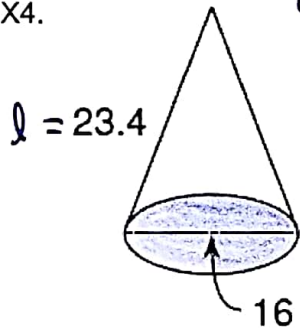
$$SA = 396 + 196 + 462 + 196 + 396$$

$$A = 396$$

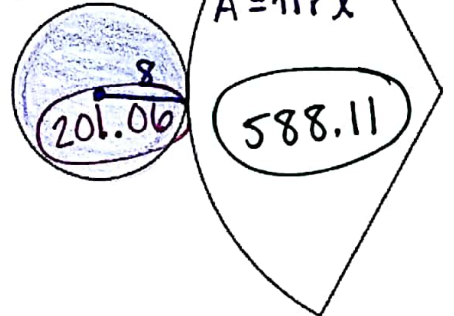
$$SA = 1646$$



EX4.



cone
 • 1 circle
 • lateral SA



$$A = \pi \cdot (8)^2$$

$$A = 201.06$$

$$A = \pi \cdot 8 \cdot 23.4$$

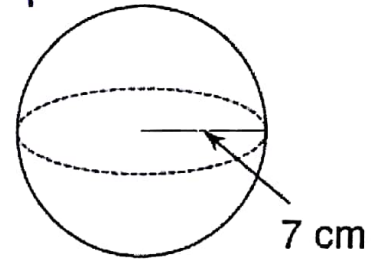
$$SA = 201.06 + 588.11$$

$$SA = 789.17$$

$$A = 588.11$$

EX5.

sphere



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

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

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