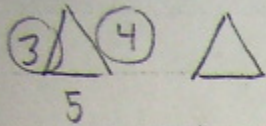
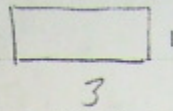


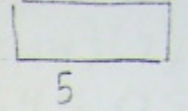
1.



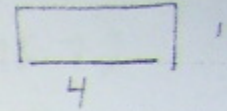
$$\begin{aligned} A &= \frac{b \times h}{2} \\ &= \frac{3 \times 4}{2} \\ &= \frac{12}{2} \\ &= 6 \times 2 \\ &= \textcircled{12} \end{aligned}$$



$$\begin{aligned} A &= L \times w \\ &= 3 \times 1 \\ &= \textcircled{3} \end{aligned}$$

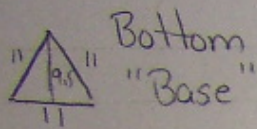


$$\begin{aligned} A &= L \times w \\ &= 5 \times 1 \\ &= \textcircled{5} \end{aligned}$$



$$\begin{aligned} A &= L \times w \\ &= 4 \times 1 \\ &= \textcircled{4} \end{aligned}$$

$$\begin{aligned} &12 + 3 + 5 + 4 \\ &24 \text{ in}^2 \end{aligned}$$



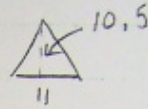
Sides

Three are identical

$$A = \frac{b \times h}{2}$$

$$= \frac{11 \times 9.5}{2}$$

$$= 52.25$$



$$A = \frac{b \times h}{2}$$

$$= \frac{11 \times 10.5}{2}$$

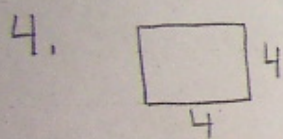
$$= 57.75 \times 3$$

$$173.25$$

$$52.25 + 173.25$$

$$225.5 \text{ in}^2$$

$$\begin{aligned}
 3. \quad SA_{\Delta} &= \pi r^2 + \pi r s \\
 &= (3.14)(7)^2 + (3.14)(7)(15.7) \\
 &= (3.14)(49) + 345.086 \\
 &= 153.86 + 345.086 \\
 &= 498.946
 \end{aligned}$$



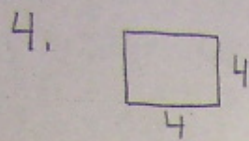
$$\begin{aligned}
 A &= L \times w \\
 &= 4 \times 4 \\
 &= 16 \text{ mi}^2
 \end{aligned}$$

sides 4 identical sides.

A triangle with a base of 4 and a height of 6.3. The height is indicated by a dashed vertical line from the top vertex to the base, with a right-angle symbol at the intersection. The number 6.3 is written next to the dashed line.

$$\begin{aligned}
 A &= \frac{b \times h}{2} \\
 &= \frac{4 \times 6.3}{2} \\
 &= 12.6 \times 4 \\
 &= 50.4
 \end{aligned}$$

16 + 50.4



$$\begin{aligned}
 A &= L \times w \\
 &= 4 \times 4 \\
 &= 16 \text{ mi}^2
 \end{aligned}$$

sides 4 identical sides

$$\begin{aligned}
 A &= \frac{b \times h}{2} \\
 &= \frac{4 \times 6.3}{2} \\
 &= 12.6 \times 4 \\
 &= 50.4
 \end{aligned}$$

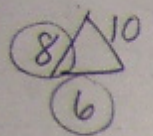
$$\begin{aligned}
 &16 + 50.4 \\
 &66.4 \text{ mi}^2
 \end{aligned}$$

$$\begin{aligned}
 5. SA &= 4 \pi r^2 \\
 &= 4(3.14)(2.9)^2 \\
 &= 4(3.14)(8.41) \\
 &= 105.63 \text{ m}^2
 \end{aligned}$$

$$\pi \text{ button} \rightarrow 105.68 \text{ m}^2$$



6.

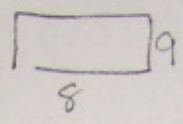


$$A = \frac{b \times h}{2}$$

$$= \frac{6 \times 8}{2}$$

$$= 24 \times 2$$

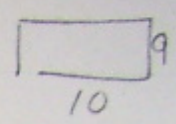
48



$$A = L \times W$$

$$= 8 \times 9$$

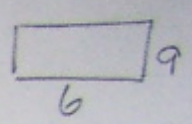
$$= 72$$



$$A = L \times W$$

$$= 10 \times 9$$

$$= 90$$



$$A = L \times W$$

$$= 6 \times 9$$

$$= 54$$

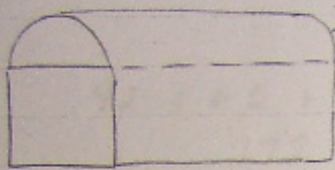
$$48 + 72 + 90 + 54$$

$$264 \text{ yd}^2$$

7.



7.



Rectangular Prism \* No Top

~~Top~~ Bottom Front Back

$$A = L \times W$$

$$= 4 \times 10$$

$$= 40$$

$$A = L \times w$$

$$= 3 \times 4$$

$$= 12$$

$$\times 2$$

$$= 24$$

Side Side

$$A = L \times W$$

$$= 10 \times 3$$

$$= 30$$

$$\times 2$$

$$= 60$$

$$40 + 24 + 60$$

$$= 124$$

$\frac{1}{2}$  of a Cylinder

$$SA = 2\pi r^2 + 2\pi r h$$

$$= 2(3.14)(2)^2 + 2(3.14)(2)(10)$$

$$= 2(3.14)(4) + 125.6$$

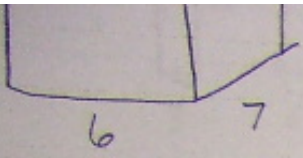
$$= 25.12 + 125.6$$

$$= \frac{150.72}{2}$$

$$= 75.36$$

$$124 + 75.36$$

$$= 199.36$$



### Rectangular Prism \* No Top

| <del>Top</del> & Bottom | Front & Back     | Side & Side      |
|-------------------------|------------------|------------------|
| $A = L \times W$        | $A = L \times W$ | $A = L \times W$ |
| $= 6 \times 7$          | $= 6 \times 5$   | $= 7 \times 5$   |
| $= 42$                  | $= 30$           | $= 35$           |
|                         | $\times 2$       | $\times 2$       |
|                         | $(60)$           | $(70)$           |

$$42 + 60 + 70$$

$$\underline{\underline{172}}$$

### Triangular Prism \* Side Missing

8-5

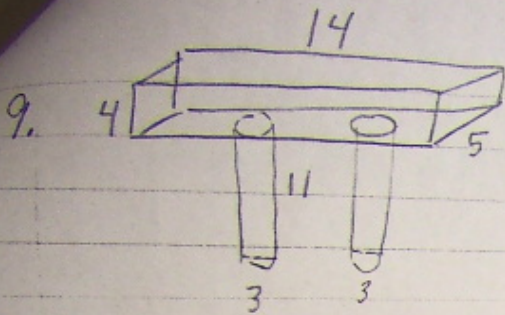
| Triangle                     | Rect 1           | Rect 2         | Rect 3           |
|------------------------------|------------------|----------------|------------------|
| $(3) \triangle (6.7)$<br>(6) | $\square$<br>3   | $\square$<br>6 | $\square$<br>6.7 |
| $A = \frac{b \times h}{2}$   | $A = L \times W$ |                | $A = L \times W$ |
| $= \frac{3 \times 6}{2}$     | $= 3 \times 7$   |                | $= 6 \times 7$   |
| $= 9$                        | $= 21$           |                | $= 42$           |
| $\times 2$                   |                  |                |                  |
| $(18)$                       |                  |                |                  |

$$18 + 21 + 42$$

$$\underline{\underline{81}}$$

$$172 + 81$$

$$253 \text{ cm}^2$$



Rectangular Prism

| Top Bottom             | Front Back             | Side Side             |
|------------------------|------------------------|-----------------------|
| $A = L \times W$       | $A = L \times W$       | $A = L \times W$      |
| $= 14 \times 5$        | $= 14 \times 4$        | $= 4 \times 5$        |
| $= 70$                 | $= 56$                 | $= 20$                |
| $\frac{\times 2}{140}$ | $\frac{\times 2}{112}$ | $\frac{\times 2}{40}$ |

292

2 Cylinders.

$$SA = 2 \times r^2 + 2\pi r h$$

$$2(3.14)(1.5)(11)$$

$$\frac{103.62}{\times 2}$$

207.24

$$292 + 207.24$$

$$499.24$$