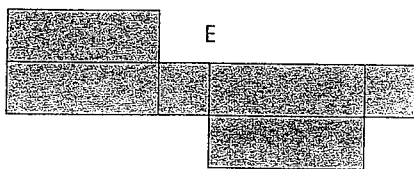
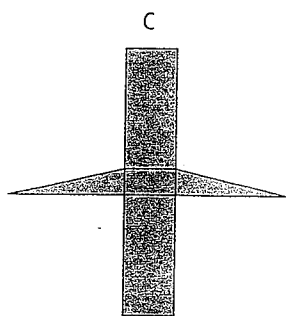
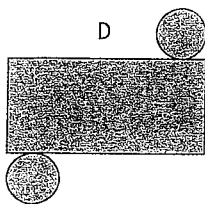
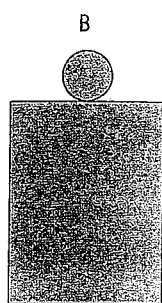
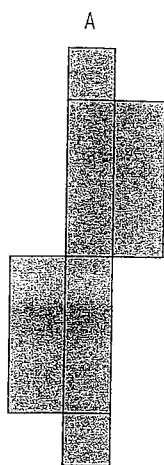


Grade 8 Surface Area

Practice 1 Quiz Name:

Block:

1. Look at the following cut-outs. What would the following shapes be as 3D objects? (Identify).



A. Rectangular Prism

B. Cylinder

C. Triangular Prism

D. Cylinder

E. Rectangular Prism

2. Find the Surface Area of the following shapes.
(Show all calculations)

$$A = L \times w$$

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

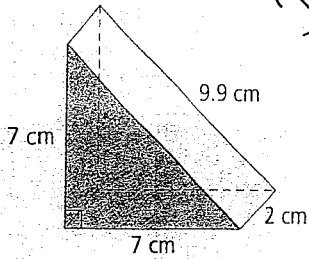
a. Top: $2 \times 9.9 = 19.8 \text{ cm}^2$

Bottom: $7 \times 2 = 14 \text{ cm}^2$

Back: $7 \times 2 = 14 \text{ cm}^2$

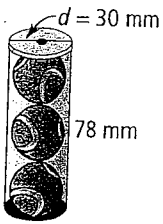
2 Triangles: $\frac{7 \times 7}{2} = \frac{49}{2} = 24.5 \times 2 = 49 \text{ cm}^2$

Total Surface Area 96.8 cm^2



24.5 x 2
↑
2 Triangles

b.



Area of 2 circles:

$$A = \pi \times r^2 \quad A = 3.14 \times 15 \times 15 = 706.5 \text{ mm}^2$$

$$706.5 \times 2 = 1413 \text{ mm}^2$$

Circumference of Circle:

$$C = \pi d \quad C = 3.14 \times 30 = 94.2 \text{ mm}$$

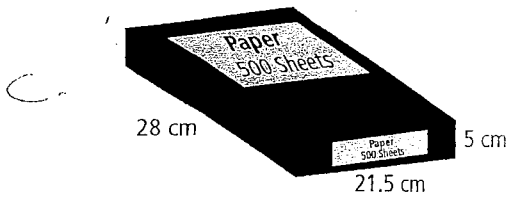
Area of Rectangle:

$$94.2 \times 78 = 7,347.6 \text{ mm}^2$$

Total Surface Area 8760.6 mm^2

$$\begin{array}{r} 2 \text{ Circles } \{ 1413.0 \\ \text{Rectangles } \{ 7347.6 \\ \hline 8760.6 \end{array}$$





$$A = L \times W$$

$$\text{Top: } \underline{21.5 \times 28} = 602 \text{ cm}^2$$

$$\text{Bottom: } \underline{21.5 \times 28} = 602 \text{ cm}^2$$

$$\text{Front: } \underline{21.5 \times 5} = 107 \text{ cm}^2$$

$$\text{Back: } \underline{21.5 \times 5} = 107 \text{ cm}^2$$

$$\text{Left Side: } \underline{28 \times 5} = 140 \text{ cm}^2$$

$$\text{Right Side: } \underline{28 \times 5} = 140 \text{ cm}^2$$

$$\text{Total SA } \underline{1698} \text{ cm}^2$$

Draw below your vision of
Xmas morning: