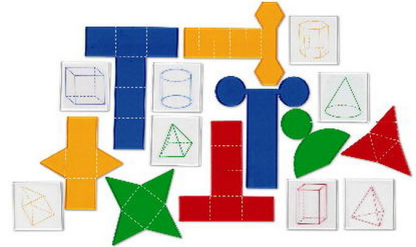




Warm Up Grade 8



Assessment Review

1. Maribeth works in a dog rescue centre. At feeding time, 5 of the dogs get $\frac{3}{4}$ kg of food and 3 dogs get $\frac{3}{5}$ kg of food. How much food does Maribeth feed to the dogs?

$$\begin{array}{r} \frac{5}{1} \times \frac{3}{4} \\ \frac{15}{4} \times 5 \\ \frac{75}{20} \end{array} + \begin{array}{r} \frac{3}{1} \times \frac{3}{5} \\ \frac{9}{5} \times 4 \\ \frac{36}{20} \end{array}$$

need C.D.

$$= \frac{111}{20} \Rightarrow 5 \frac{11}{20}$$

Improper \Rightarrow Mixed

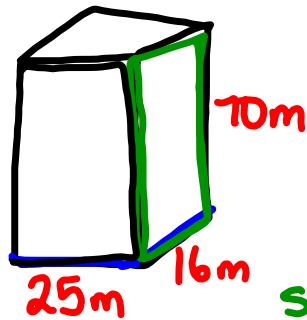
She feeds the dog $5 \frac{11}{20}$ bags.

2. Use mental math.

a) 25% of 16 = 4
 ↓
 like ÷ by 4

b) 700 - 249

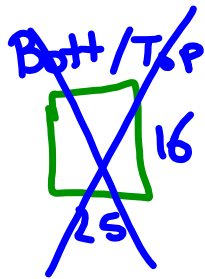
$$\begin{array}{r} 69 \\ 700 \\ - 249 \\ \hline 451 \end{array}$$



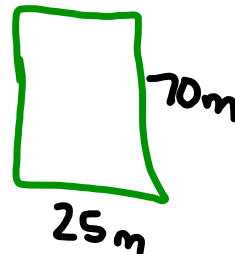
Ads on walls

→ Cover the walls

→ What is the S.A. for the ads?



Sides
L/R

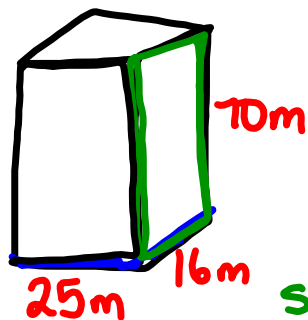


$$\begin{aligned}
 A &= L \times w \\
 &= 16\text{m} \times 70\text{m} \\
 &= 1120\text{m}^2
 \end{aligned}$$

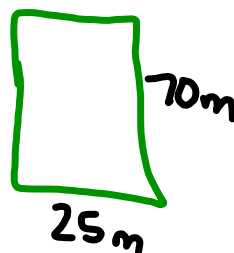
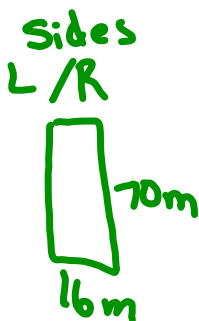
$$\begin{aligned}
 A &= L \times w \\
 &= 70\text{m} \times 25\text{m} \\
 &= 1750\text{m}^2
 \end{aligned}$$

This is just for the left.

$$\begin{aligned}
 \text{Total S.A.} &= 2 \times (\text{Lside} + \text{Front}) \\
 &= 2 \times (1120\text{m}^2 + 1750\text{m}^2) \\
 &= 2 \times 2870\text{m}^2 \\
 &= 5740\text{m}^2
 \end{aligned}$$



Ads on walls
 → Cover the walls
 → What is the S.A. for the ads?



$$A = L \times w$$

$$= 16m \times 70m$$

$$= 1120m^2$$

$$A = L \times w$$

$$= 70m \times 25m$$

$$= 1750m^2$$

Because there is two of each →

This is just for the left.

$\times 2$

$\times 2$

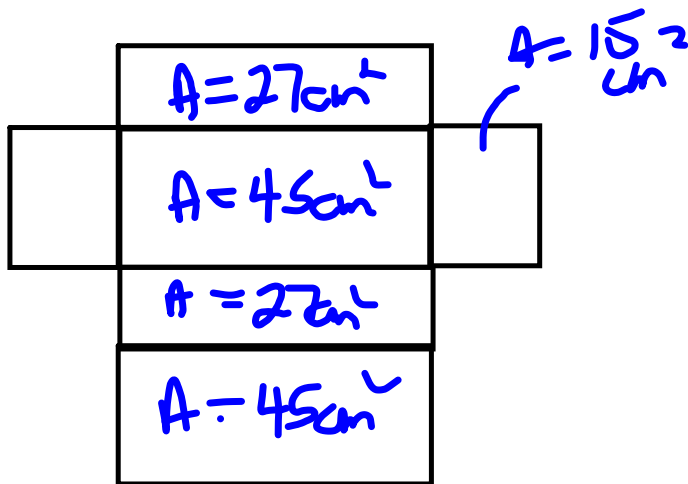
$$= 2240m^2 +$$

$$3500$$

$$= 5740m^2$$

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4.

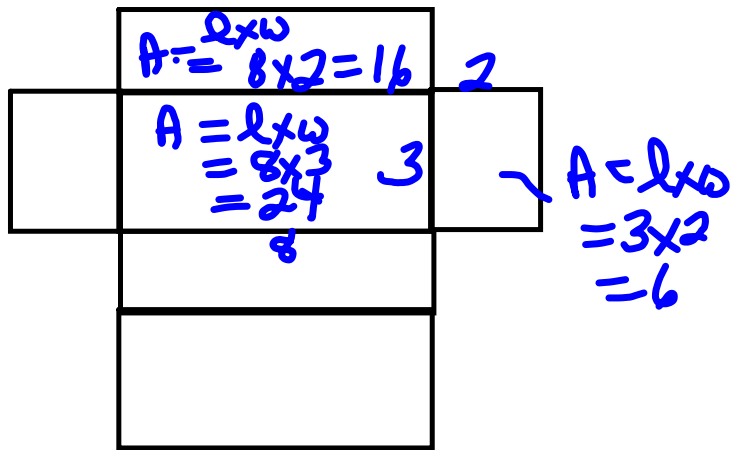
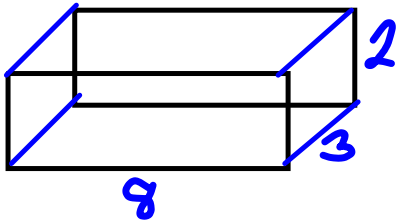


$$\begin{aligned} SA &= 2 \times 15 + 2 \times 45 + 2 \times 27 \\ &= 30 + 90 + 54 \\ &= 174 \text{ cm}^2 \end{aligned}$$

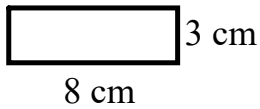
I added all
the areas.

$$\begin{aligned} SA &= 15 + 27 + 45 + 15 + 27 + 45 \\ &= 174 \text{ cm}^2 \end{aligned}$$

5.

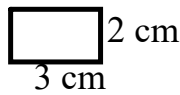


top/bottom



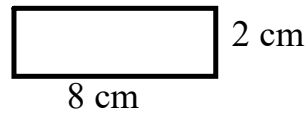
$$\begin{aligned} A &= l \times w \\ &= 8 \text{ cm} \times 3 \text{ cm} \\ &= 24 \text{ cm}^2 \end{aligned}$$

side/side



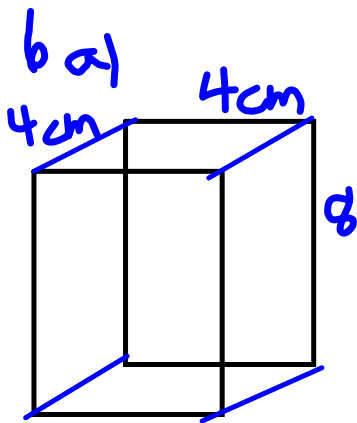
$$\begin{aligned} A &= l \times w \\ &= 2 \text{ cm} \times 3 \text{ cm} \\ &= 6 \text{ cm}^2 \end{aligned}$$

front/back

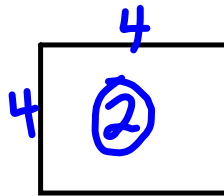


$$\begin{aligned} A &= l \times w \\ &= 2 \text{ cm} \times 8 \text{ cm} \\ &= 16 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} SA &= 2 \times 16 + 2 \times 24 + 2 \times 6 \\ &= 32 + 48 + 12 \\ &= 92 \text{ cm}^2 \end{aligned}$$

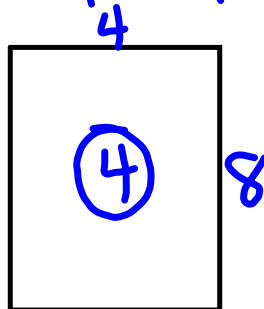


Top and Bottom



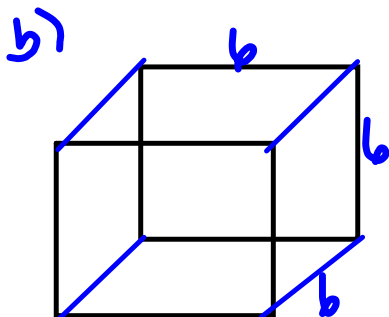
$$\begin{aligned} A &= l \times w \\ &= 4 \times 4 \\ &= 16 \text{ cm}^2 \end{aligned}$$

Front, Back, Sides

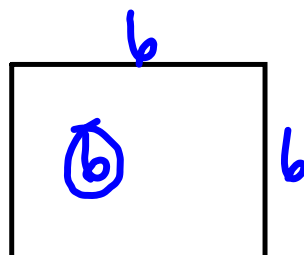


$$\begin{aligned} A &= l \times w \\ &= 8 \times 4 \\ &= 32 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} SA &= 2 \times 16 + 4 \times 32 \\ &= 32 + 128 \\ &= 160 \text{ cm}^2 \end{aligned}$$



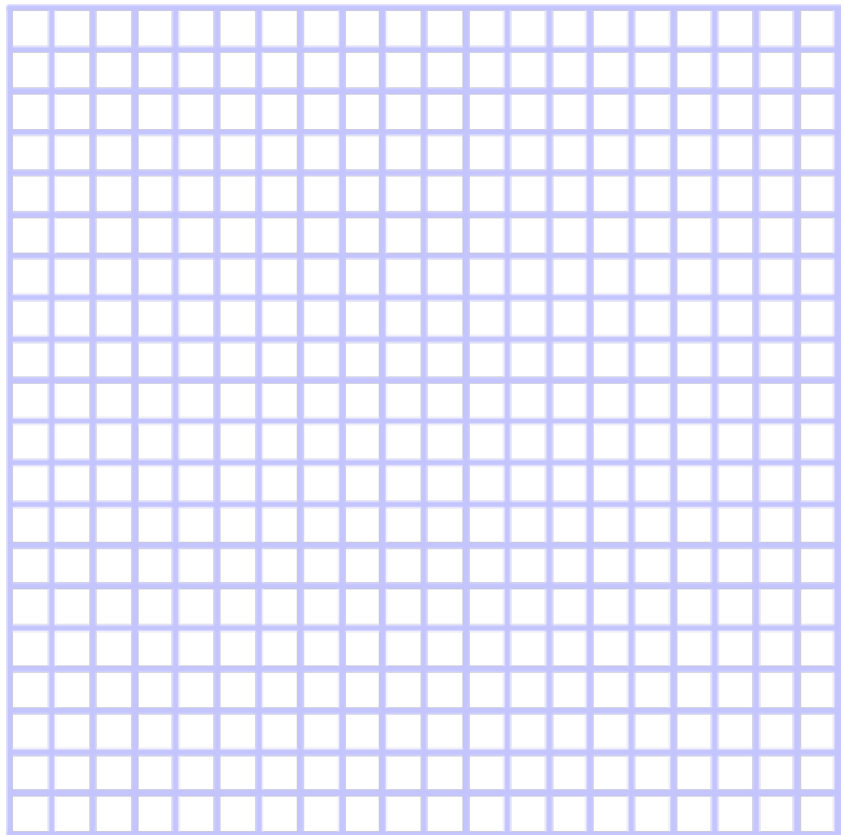
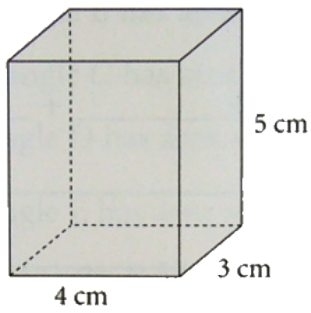
Cube - All faces the same



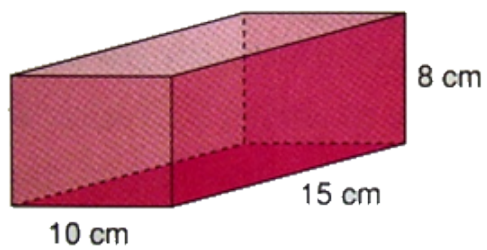
$$\begin{aligned} A &= l \times w \\ &= b \times b \\ &= 36 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} SA &= 6 \times 36 \\ &= 216 \text{ cm}^2 \end{aligned}$$

What is the surface area of this prism?



Sketch a net of this right rectangular prism.
What is its surface area?



Class/Homework

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●, #7a,b, #9, #10, #11, #12, #13

7a) $L \times w \times H$



Riley

Attachments

Review of Surface area of 2D Shape Grade 8 Unit 4 PDF.pdf