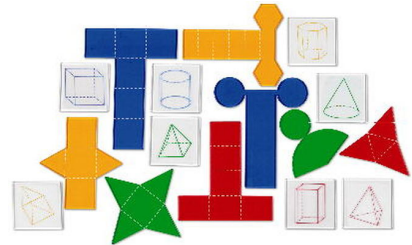


Warm Up Grade 8

May 17, 2017

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?

$$\begin{array}{r} 5 \left(\frac{3}{4} \right) \\ \hline 15 \times 5 \\ 4 \times 5 \\ \hline 75 \\ 20 \end{array} + \begin{array}{r} 3 \left(\frac{3}{5} \right) \\ \hline 9 \times 4 \\ 5 \times 4 \\ \hline 36 \\ 20 \end{array} = \frac{111}{20} = 5 \frac{11}{20} \text{ kg}$$

2. Use mental math.

a) 25% of 16

↓
like $\frac{1}{4}$
 $\frac{1}{4}$ of 16
= 4

b) $700 - 249$

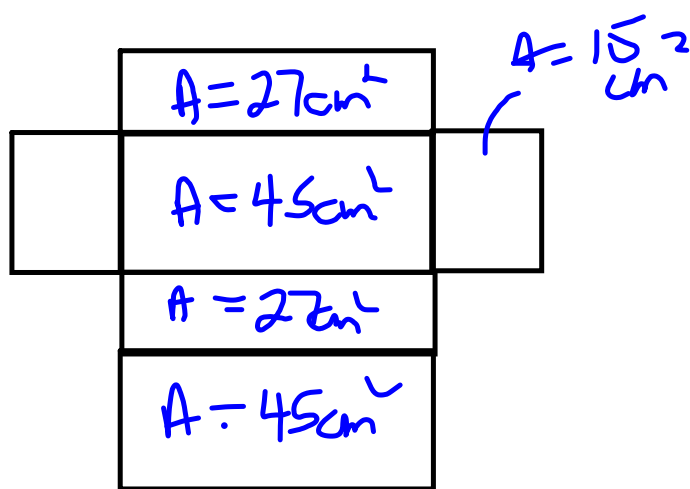
$700 - 250$
450

451

← subtracted
1 too many
So addition

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4.

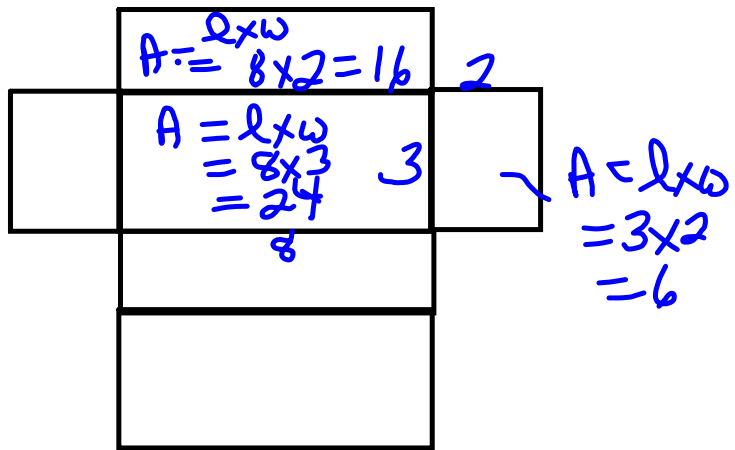
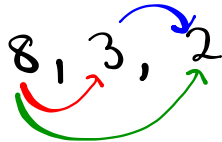
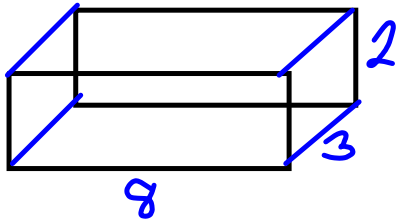


$$\begin{aligned} SA &= 2 \times 15 + 2 \times 45 + 2 \times 27 \\ &= 30 + 90 + 54 \\ &= 174 \text{ cm}^2 \end{aligned}$$

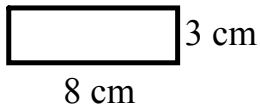
I added all the areas.

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

5.

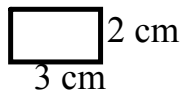


top/bottom



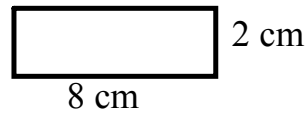
$$\begin{aligned} A &= l \times w \\ &= 8 \text{ cm} \times 3 \text{ cm} \\ &= 24 \text{ cm}^2 \end{aligned}$$

side/side



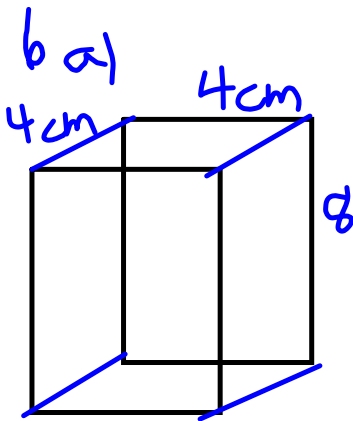
$$\begin{aligned} A &= l \times w \\ &= 2 \text{ cm} \times 3 \text{ cm} \\ &= 6 \text{ cm}^2 \end{aligned}$$

front/back

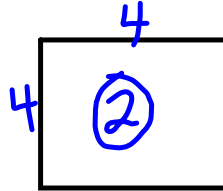


$$\begin{aligned} A &= l \times w \\ &= 2 \text{ cm} \times 8 \text{ cm} \\ &= 16 \text{ cm}^2 \end{aligned}$$

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

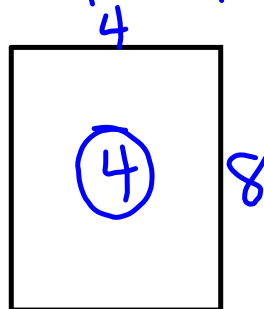


Top and Bottom



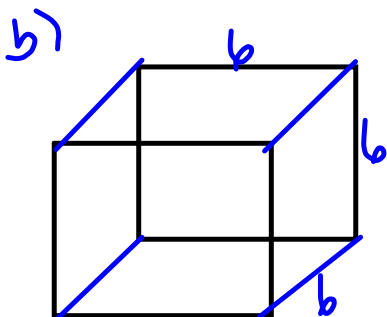
$$A = l \times w \\ = 4 \times 4 \\ = 16 \text{ cm}^2$$

Front, Back, Sides

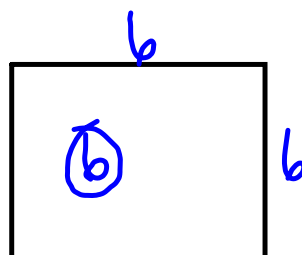


$$A = l \times w \\ = 8 \times 4 \\ = 32 \text{ cm}^2$$

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



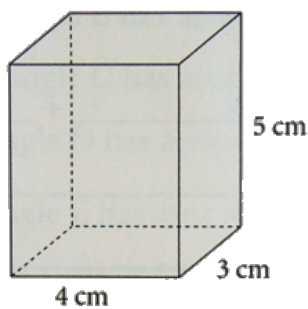
Cube - All faces the same



$$A = l \times w \\ = b \times b \\ = 36 \text{ cm}^2$$

$$SA = 6 \times 36 \\ = 216 \text{ cm}^2$$

What is the surface area of this prism?



4cm, 3cm, 5cm

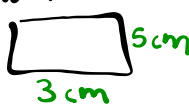
Top/Bottom



$$A_D = b \times h \\ = 4\text{cm} \times 3\text{cm} \\ = 12\text{cm}^2$$

ON Yesterday's sheets

L Side/R Side



$$A_D = b \times h \\ = 3\text{cm} \times 5\text{cm} \\ = 15\text{cm}^2$$

front/Back

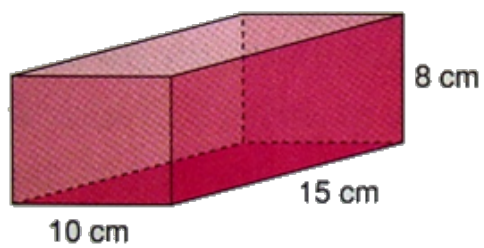


$$A_D = b \times h \\ = 4\text{cm} \times 5\text{cm} \\ = 20\text{cm}^2$$

$$\begin{aligned} \text{Total SA} &= 2 \text{ Top} + 2 \text{ Sides} + 2 \text{ Fronts} \\ &= 2(12\text{cm}^2) + 2(15\text{cm}^2) + 2(20\text{cm}^2) \\ &= 24\text{cm}^2 + 30\text{cm}^2 + 40\text{cm}^2 \\ &= 94\text{cm}^2 \end{aligned}$$

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

ON Yesterday's
sheets



Class/Homework

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7m x 4m x 3m of Caleb's
L W h an idiot
7 3
Roof/Floor 7 by 3

#6c, #7a,b, #9, #10, #11, #12, #13

(12) 50m, 40m, 75m
W H



Attachments

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