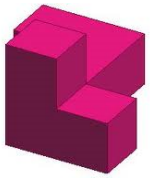
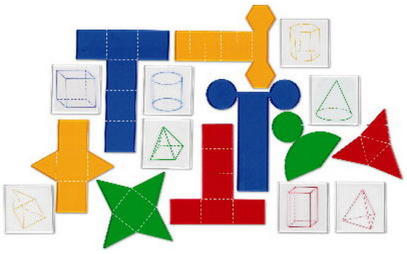


Warm Up Grade 8



Assessment Review

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

$\frac{5}{1} \times \frac{3}{4} = \frac{15}{4}$ $\frac{3}{1} \times \frac{3}{5} = \frac{9}{5}$

$\frac{15 \cdot 5}{4 \cdot 5} + \frac{9 \cdot 4}{5 \cdot 4}$

$\frac{75}{20} + \frac{36}{20} = \frac{111}{20} = 5\frac{11}{20}$ kg

2. Use mental math.

a) 25% of 16

$\frac{1}{4}$ of 16

like 16 ÷ 4

4

b) 700 – 249

700 - 200 = 500

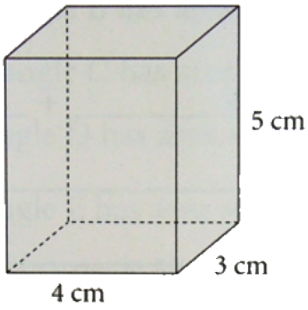
1 too many

$$\begin{array}{r} 500 \\ -\ 50 \\ \hline 450 \\ +1 \\ \hline 451 \end{array}$$

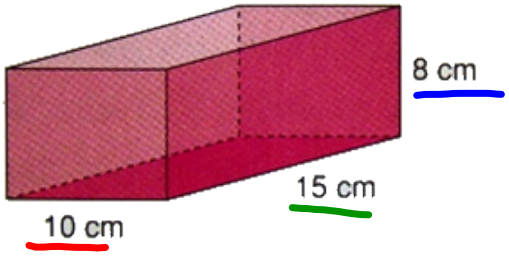
$$\begin{array}{r} \cancel{700}^{\,6\,9\,1\,0} \\ -249 \\ \hline 451 \end{array}$$

$$\begin{array}{r} \cancel{700}^{\,6\,9\,1\,0} \\ -249 \end{array}$$

What is the surface area of this prism?



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



10, 15, 8

A = L x w
10 x 15
= 150
x 2 Top Back
300

A = LxW
10 x 8
= 80
x 2 L/R
+ 160

A = LxW
15 x 8
= 120
x 2 Front Back
240

700 cm²

Class/Homework

5) 8, 2, 3

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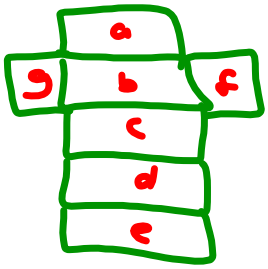
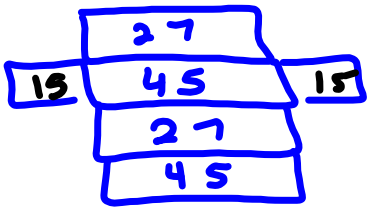
#4, 5, 6, #7a,b, #9, #10, #11, #12, #13

4)



add up all areas

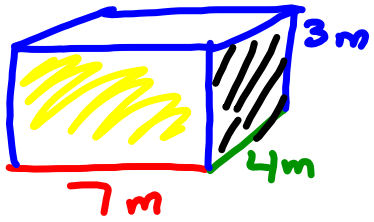


27 + 45 + 27 + 45 + 15 + 15

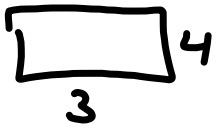
9) Paint a room

L W H

7m by 4m by 3m



Don't paint floor 7m by 4m



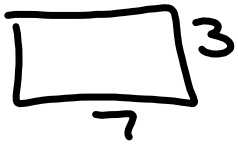
$A = L \times W$

3×4

$= 12$

$\times 2$

$24\ m^2$



$A = L \times W$

7×3

21

$\times 2$

$42\ m^2$

$+$

$=$

Area of walls

$66\ m^2$

$\times$ 2 coats of paint

$132\ m^2$

$40\ m^2$ is covered by 1 can

$132\ m^2 \div 40_m = 3.3$ cans

buy 4 cans

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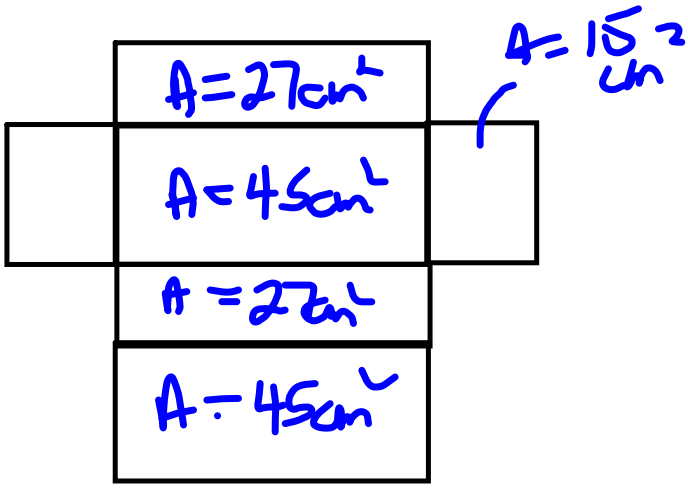
4.



$SA = 2 \times 15 + 2 \times 45 + 2 \times 27$

$= 30 + 90 + 54$

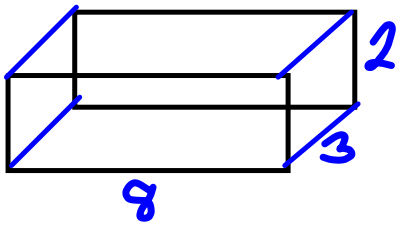
$= 174\ cm^2$

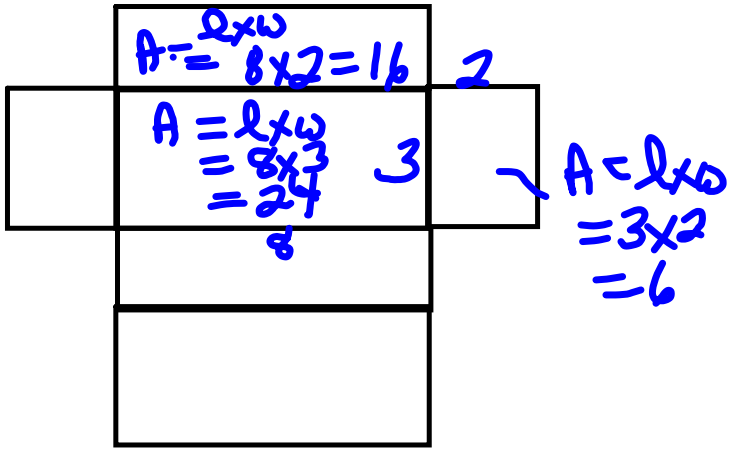
I added all the areas

$SA = 15 + 27 + 45 + 15 + 27 + 45$

$= 174 cm^2$

5.





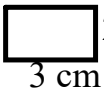
top/bottom

A = l x w

= 8 cm x 3 cm

= 24 cm^2

side/side

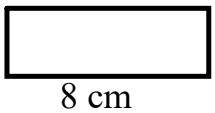


A = l x w

= 2 cm x 3 cm

= 6 cm^2

front/back



A = l x w

= 2 cm x 8 cm

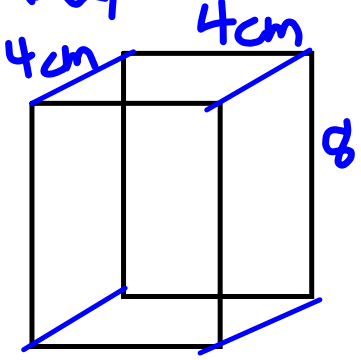
= 166 cm^2

SA = 2x16 + 2x24 + 2x6

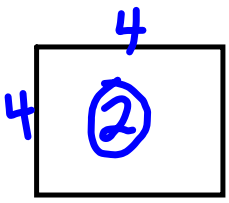
= 32 + 48 + 12

= 92 cm^2

a)

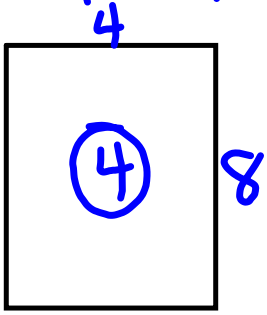


Top and Botton



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

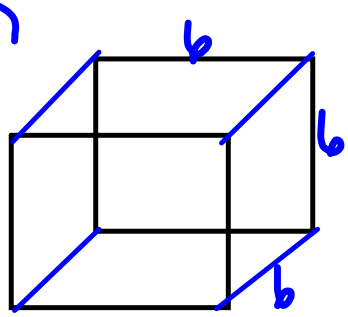
Front, Back, Sides



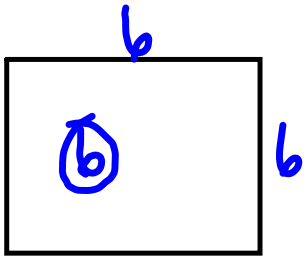
$A = l \times w$
$= 8 \times 4$
$= 32 cm^2$

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

b)



Cube - All faces the same



$A = l \times w$
$= 6 \times 6$
$= 36 cm^2$

$SA = 6 \times 36$
$= 216 cm^2$

Attachments

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