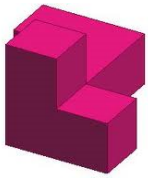
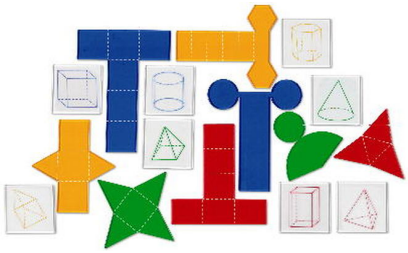


Warm Up Grade 8



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?

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

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

$\frac{75}{20} + \frac{36}{20}$

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

Marybeth feeds the dogs $5\frac{11}{20}$ kg of food.

2. Use mental math.

a) 25% of 16 = 4

like ÷ by 4

b) 700 – 249

700 − 200 = 500

− 49

451

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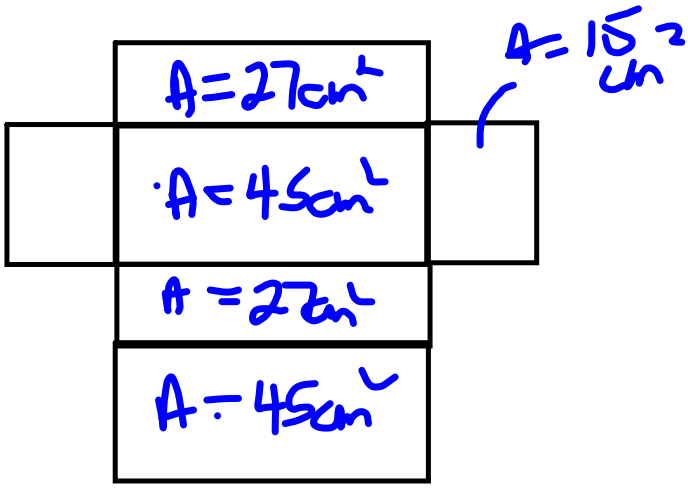
4.



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

$= 30 + 90 + 54$

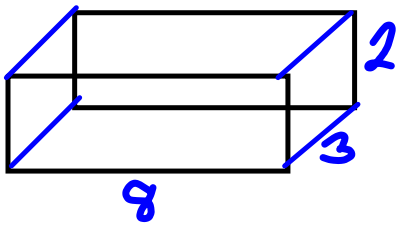
$= 174\ cm^2$

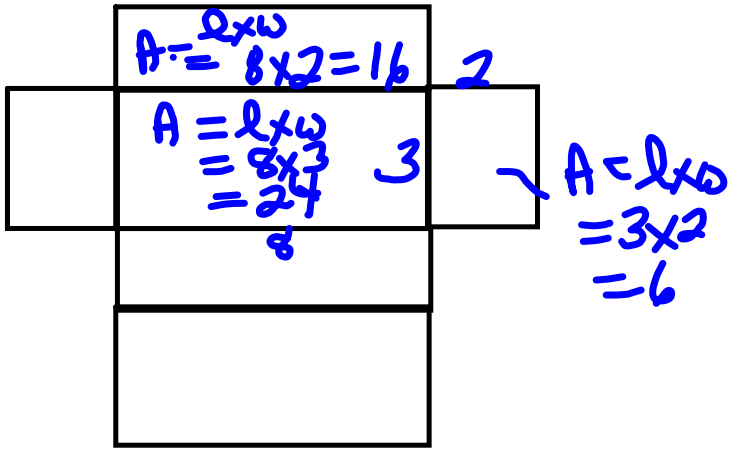
I added all the areas

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

$= 174 cm^2$

5.





top/bottom

A = l x w

= 8 cm x 3 cm

= 24 cm^2

x 2

48 cm^2 +

side/side

A = l x w

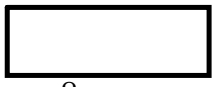
= 2 cm x 3 cm

= 6 cm^2

x 2

12 cm^2 +

front/back



A = l x w

= 2 cm x 8 cm

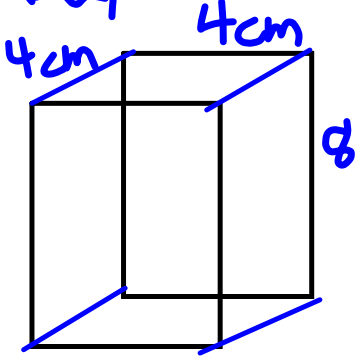
= 166 cm^2

x 2

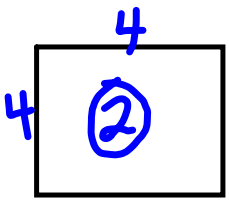
332 cm^2

392 cm^2

a)

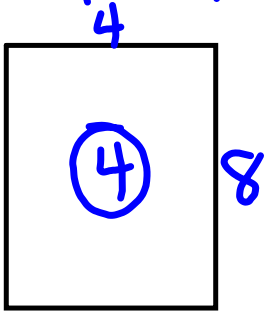


Top and Botton



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

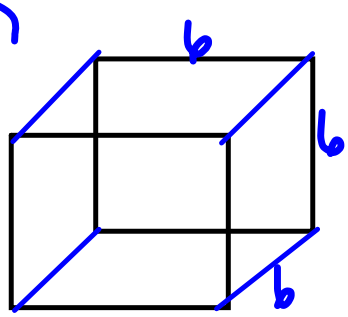
Front, Back, Sides



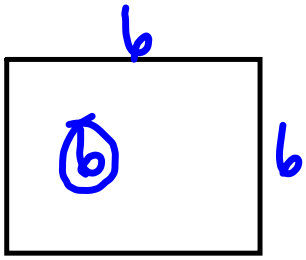
$A = l \times w$
$= 8 \times 4$
$= 32 cm^2$

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

b)



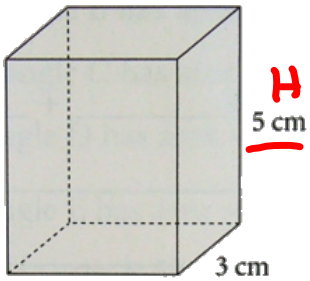
Cube - All faces the same



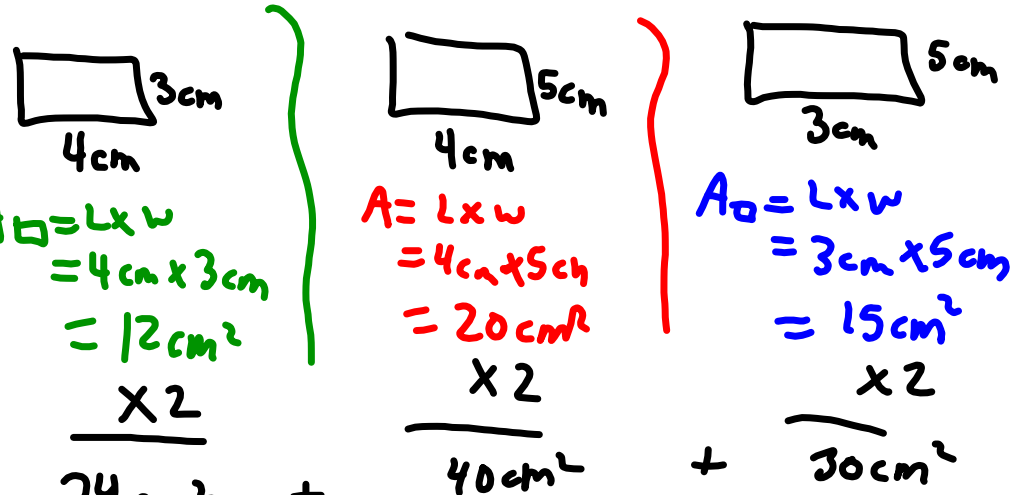
$A = l \times w$
$= 6 \times 6$
$= 36 cm^2$

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

What is the surface area of this prism?



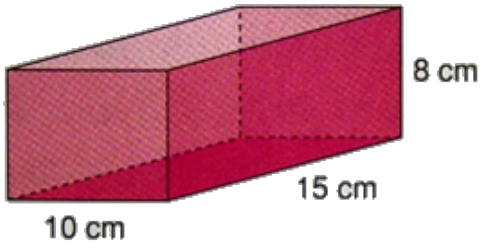
L W H
4 3 5



Total SA = 24cm² + 40cm² + 30cm²

= 94cm²

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



Class/Homework

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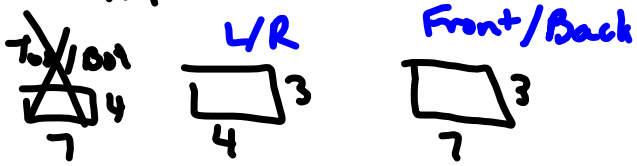
#6c, #7a,b, #9, #10, #11, #12, #13

cube has 6 equal face

Total SA ÷ 6 ⇒ Area of 1 face

⇒ Side = $\sqrt{\text{Area}}$



$A = 4 \times 3 = 12$, $\times 2$, 24 + $A = 7 \times 3 = 21$, $\times 2$, 42

Total SA = $66\ m^2$

$\times 2$ coats of paint

$132\ m^2$

1 can = $40 m^2$

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

buy 4 cans

Attachments

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