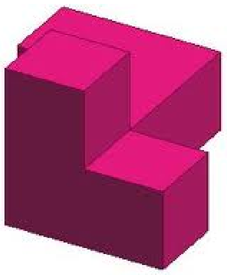
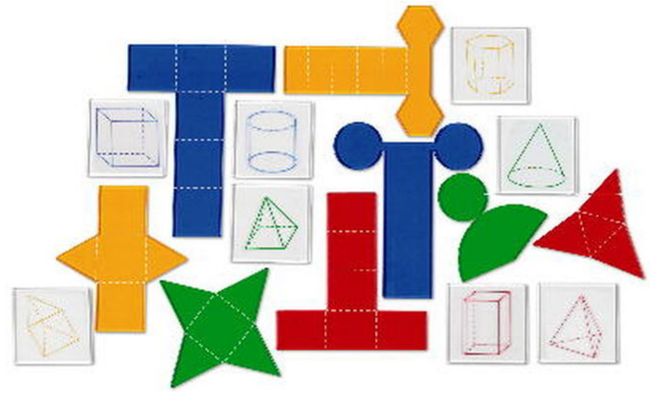


Warm Up Grade 8



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?

$\frac{5}{1} \times \frac{3}{4}$ $\quad$ $\frac{3}{1} \times \frac{3}{5}$

$\frac{15}{4}$ $\quad$ $\frac{9}{5}$

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

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

2. Use mental math.

a) 25% of 16 $= \boxed{4}$

like ÷ by 4

$16 \div 4$

$= 4$

b) 700 – 249

$= 851$

$700 - 249 = 451$

$700 - 200 = 500$

$500 - 40 = 460$

$460 - 9 = 451$

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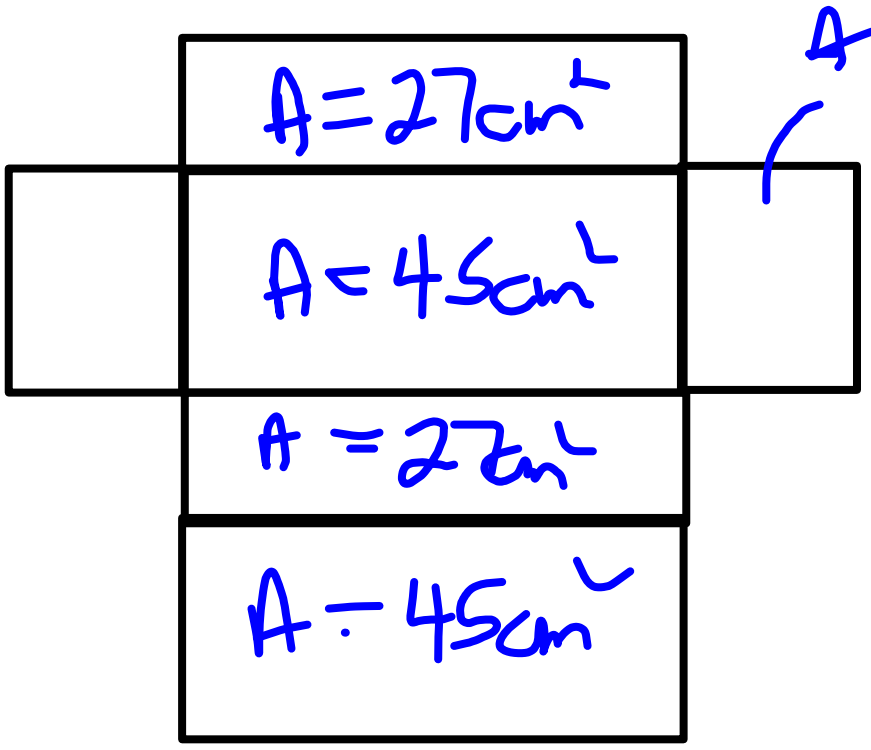
4.



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

$= 30 + 90 + 54$

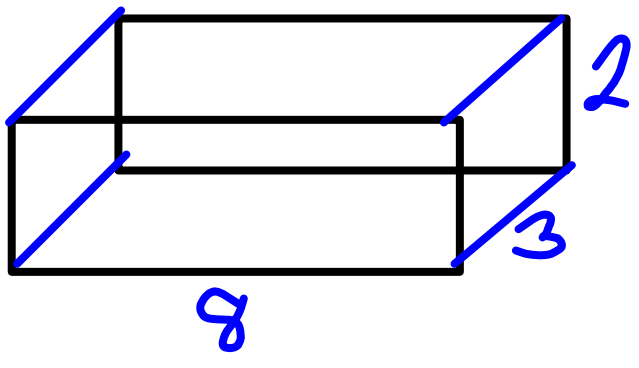
$= 174\ cm^2$

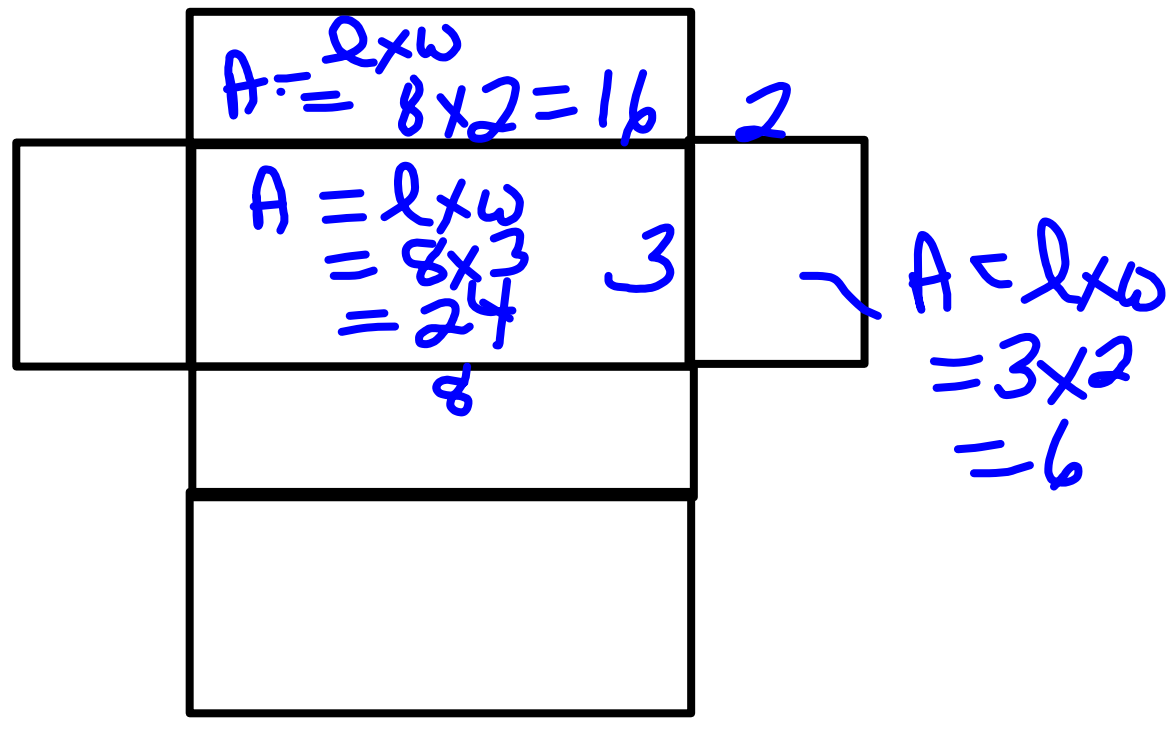
I added all the areas.

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

$= 174\ cm^2$

5.





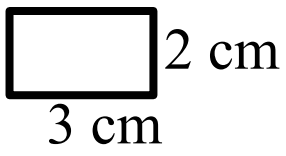
top/bottom

A = l x w

= 8 cm x 3 cm

= 24 cm^2

side/side

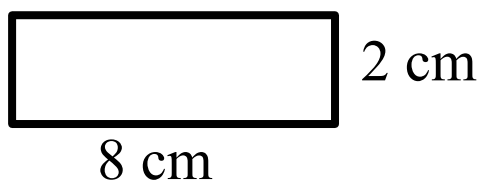


A = l x w

= 2 cm x 3 cm

= 6 cm^2

front/back



A = l x w

= 2 cm x 8 cm

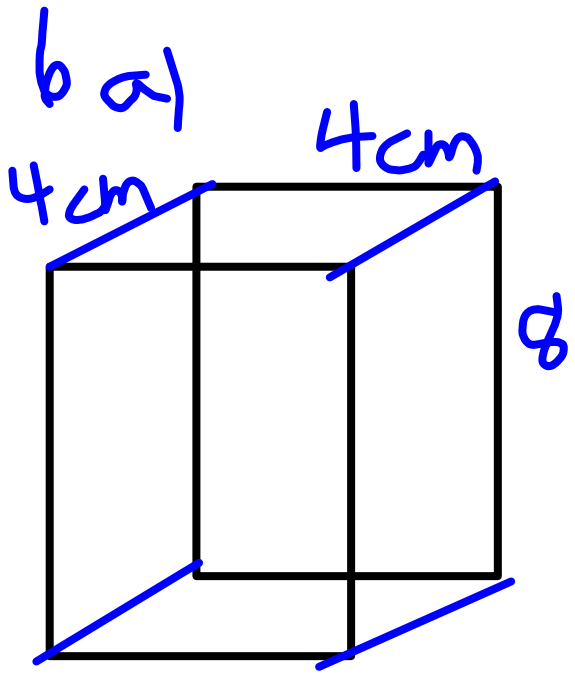
= 166 cm^2

SA = 2x16 + 2x24 + 2x6

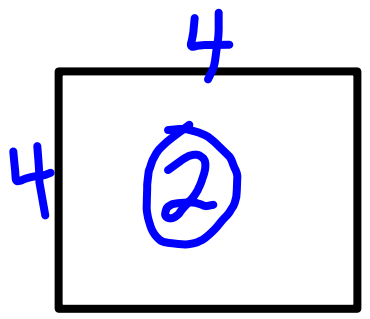
= 32 + 48 + 12

= 92 cm^2

a)

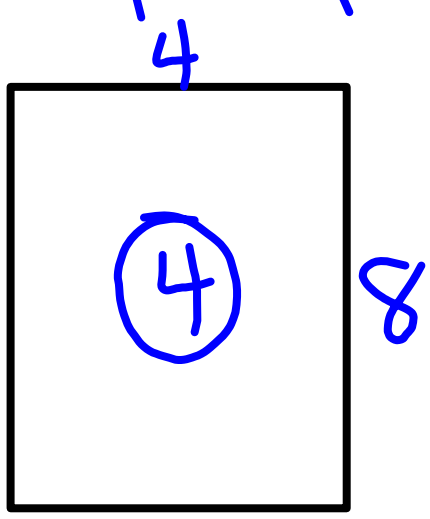


Top and Botton



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

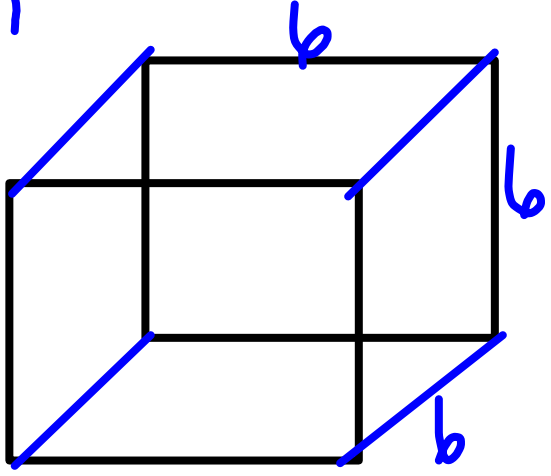
Front, Back, Sides



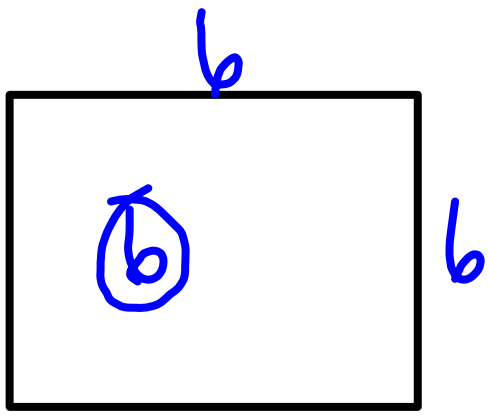
$A = l \times w$
$= 8 \times 4$
$= 32 cm^2$

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

b)



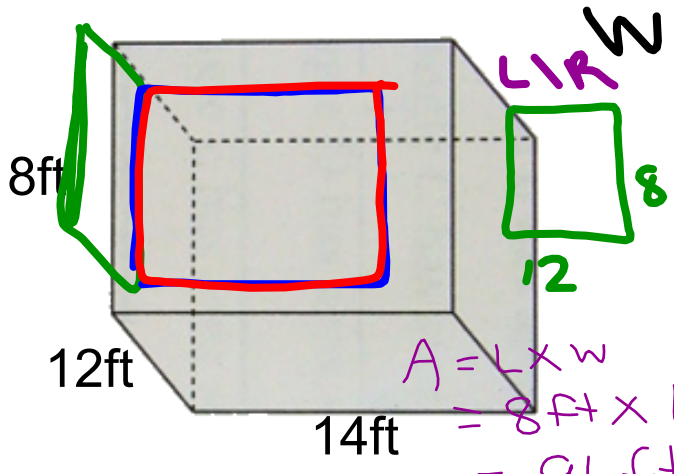
Cube - All faces the same



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

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

a) This room has dimensions of 14ft by 12ft by 8ft. If a painter wants to put 2 coats of paint on the walls, what is the total surface area of paint needed? (not paint the ceiling or floor)



Walls

L/R

8

12

$A = L \times w$
$= 8ft \times 12ft$
$= 96ft^2$
$\times 2$
$192ft^2$

Fr/Back

8

14

$A = L \times w$
$= 14ft \times 8ft$
$= 112ft^2$
$\times 2$
$224ft^2$

$L \times w \times L$

$192ft^2 + 224ft^2 = 416ft^2$
$\times 2 coats$
$832ft^2$

b) If one can of paint can cover 600ft^2, then how many cans does the painter need to buy?

$832ft^2 \div 600ft$
$= 1.39$ cans $\longrightarrow$ Buy 2 cans

Class/Homework

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