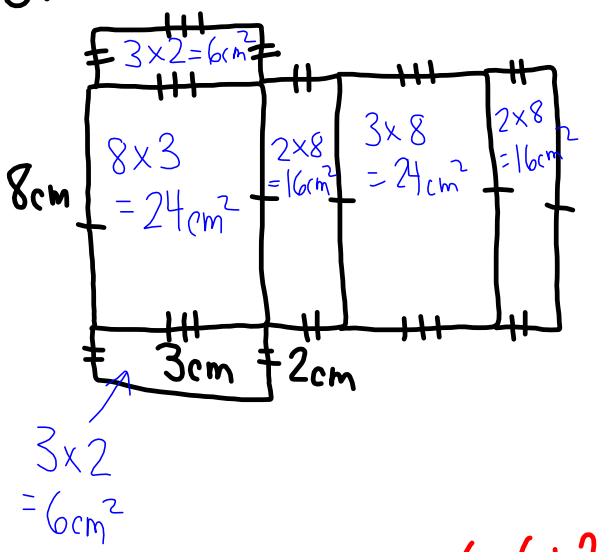
$T.S.A = 15+15+27+27+45+45$
$= 174\ cm^2$

#5.



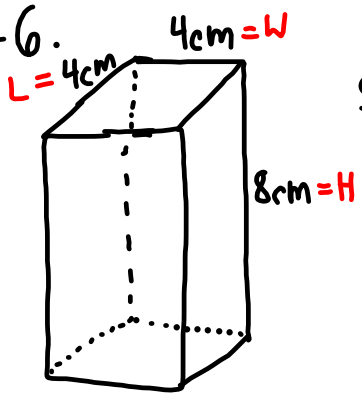
Step 1: find area of each rectangle

$A_{rectangle} = b \times h$

Step 2: Find the sum of all the areas.

$T.S.A = 6+6+24+24+16+16$
$= 92cm^2$

#6.



L W H
4cm, 4cm, 8cm

$$S.A_{R.P} = [2 \times L \times W] + [2 \times L \times H] + [2 \times W \times H]$$
$$= [2 \times 4 \times 4] + [2 \times 4 \times 8] + [2 \times 4 \times 8]$$
$$= 32 + 64 + 64$$
$$= 160\,cm^2$$

b) $S.A_{cube} = 6\,(\text{side length}^2)$

Cube made of 6 identical faces.

Area of one square face

6×6

$$= 6(6^2)$$
$$= 6(36)$$
$$= 216\,cm^2$$

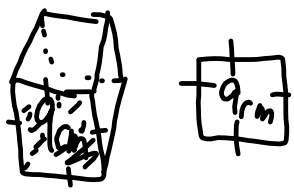
7 a) $\underset{L}{4m}$ by $\underset{W}{3m}$ by $\underset{H}{10m}$

$$S.A_{R.P} = [2 \times L \times W] + [2 \times L \times H] + [2 \times W \times H]$$
$$= [2 \times 4 \times 3] + [2 \times 4 \times 10] + [2 \times 3 \times 10]$$
$$= 24 + 80 + 60$$
$$= 164 m^2$$

10 a) $S.A_{cube} = 6(\text{side length}^2)$

$$54 = 6(x^2)$$

a) Area of one face $= 54 \div 6$
$= 9$



b) Side length $= \sqrt{\text{Area}}$
$= \sqrt{9}$
$= 3cm$