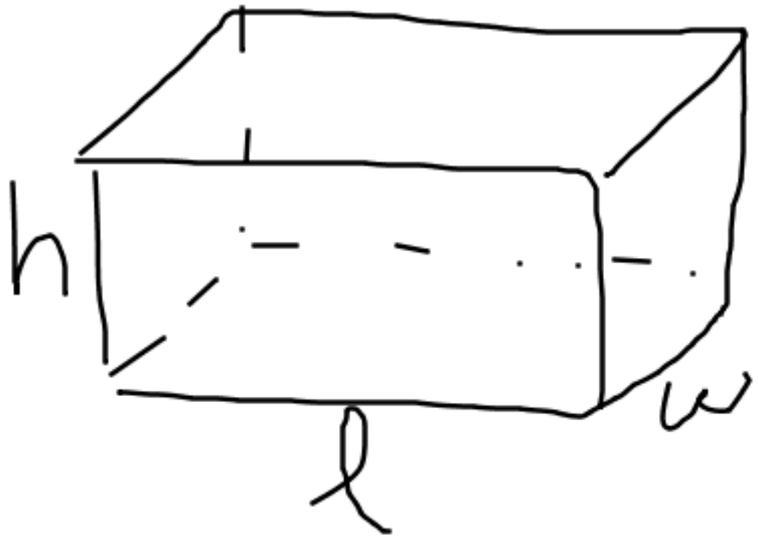
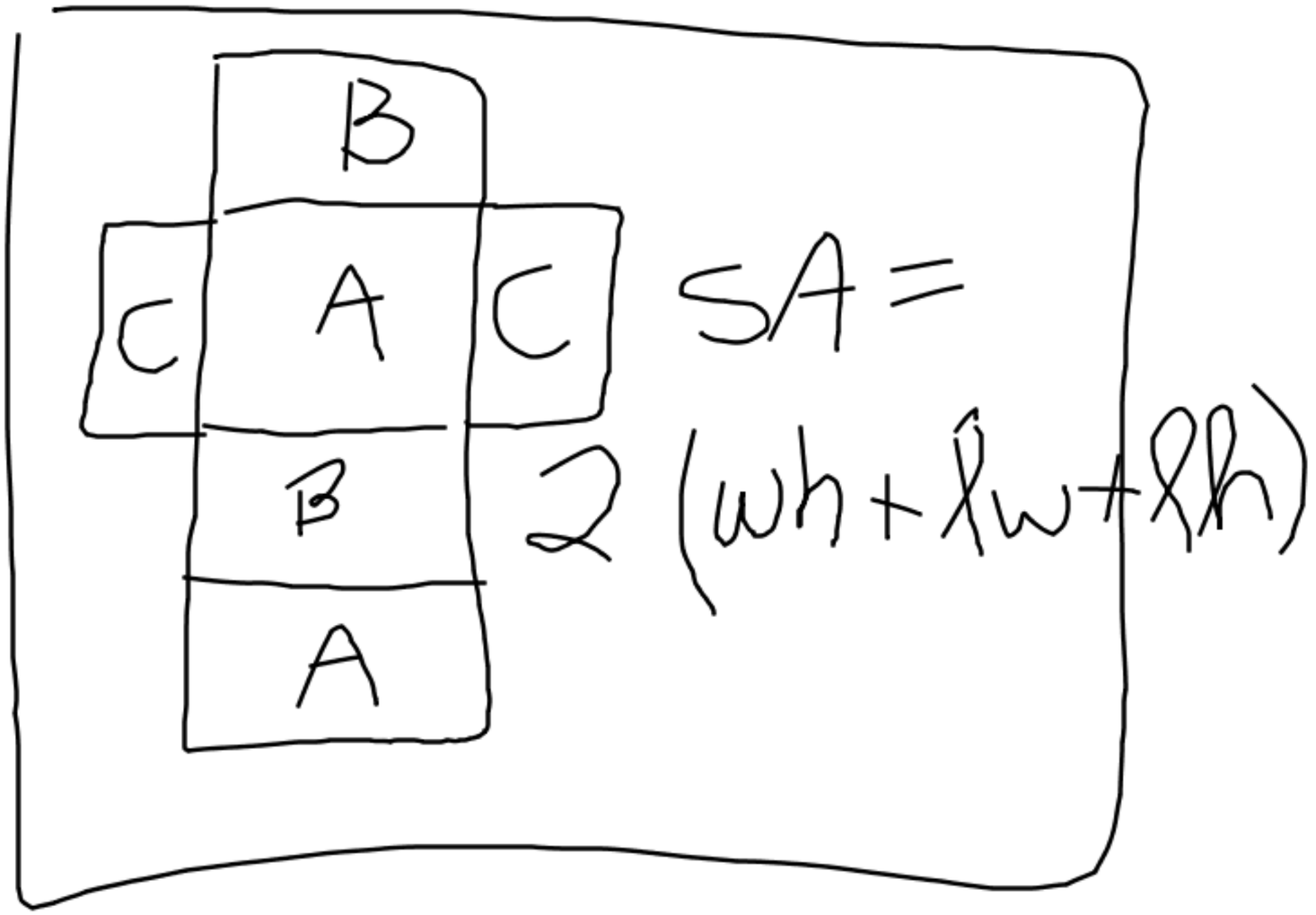
# Surface Area of a Rectangular Prism & a Triangular Prism



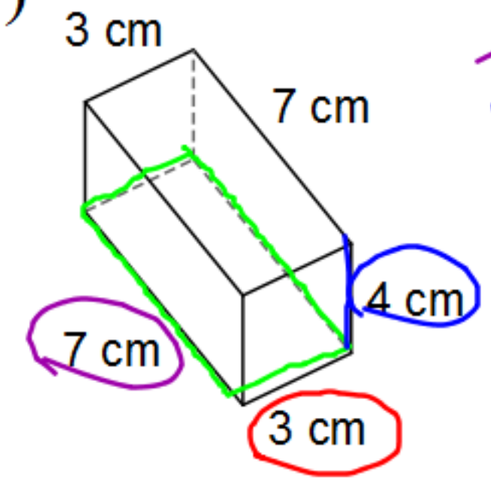

$SA = 2(wh + lw + lh)$

Find the surface area of each figure. Round to the nearest tenth.

Surface Area of a Rectangular Prism = $2(wh + \ell w + \ell h)$

Surface Area of an Isoceles Triangular Prism =

1)




$w = 3\text{ cm}$

$\ell = 7\text{ cm}$

$h = 4\text{ cm}$

$SA = 2(wh + \ell w + \ell h)$

$SA = 2[(3)(4) + (7)(3) + (7)(4)]$

$SA = 2(12 + 21 + 28)$

$SA = 2(61)$

$SA = 122\text{ cm}^2$

Infinite Pre-Algebra

Show

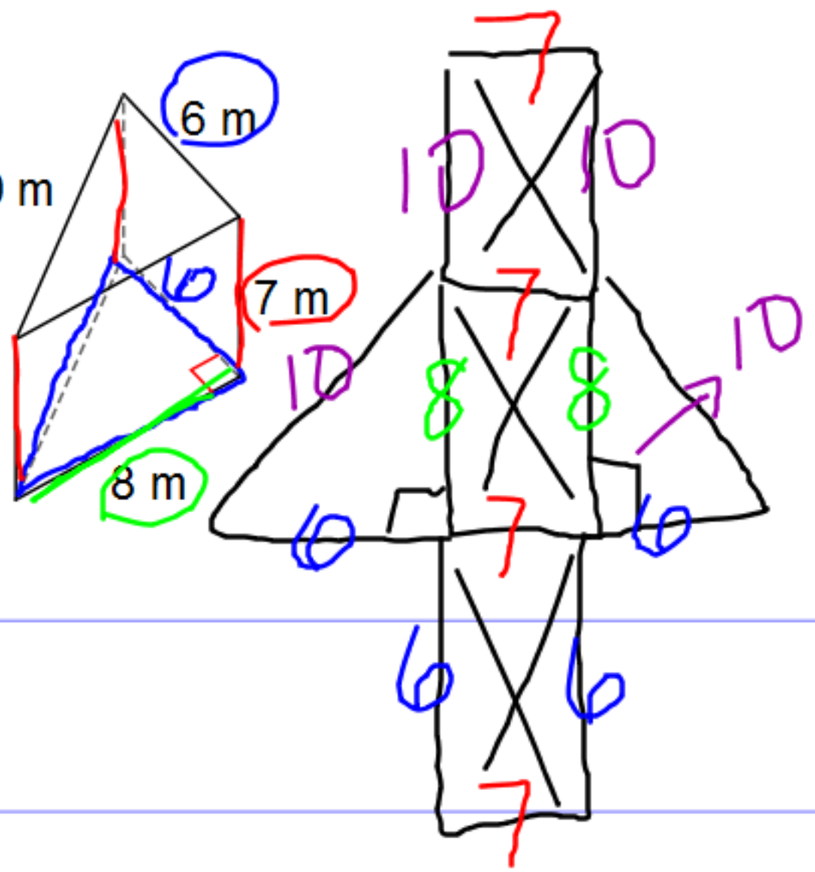
Find the surface area of each figure. Round to the nearest tenth.

Surface Area of a Rectangular Prism =

Surface Area of an ~~Isoceles~~ Triangular Prism =

$$SA = 2\left(\frac{1}{2}bh\right) + Sa + Sb + Sc$$

2)




$b = 6m$

$h = 8m$

$S = 7m$

$a = 10m$

$b = 6m$

$c = 8m$

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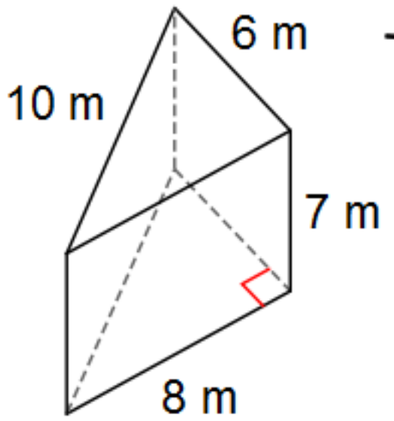
Find the surface area of each figure. Round to the nearest tenth.

Surface Area of a Rectangular Prism =

Surface Area of an Isoceles Triangular Prism =

2)




$h = 8m$
$b = 6m$
$s = 7m$

$a = 10m$
$b = 6m$
$c = 8m$

$SA = 2(\frac{1}{2}bh) + sa + sb + sc$

$SA = 2(\frac{1}{2} \cdot 6 \cdot 8) + (7)(10) + (7)(6) + (7)(8)$

$SA = 2(\frac{1}{2} \cdot 6 \cdot 8) + 70 + 42 + 56$

$SA = 2(24) + 70 + 42 + 56$

$SA = 48 + 70 + 42 + 56$

$SA = 216 m^2$