L8-6 Surface Area of Prisms


Area of ea.

$$
\begin{aligned}
& \text { Frat\&Back= } 2(9.13)=234 \mathrm{in}^{2} \\
& \text { Sides }=\frac{t^{2}(13.7)=182 \mathrm{in}^{2}}{542 \mathrm{in}^{2}}
\end{aligned}
$$

Got It? Do these problems to find out.
Find the surface area of each rectangular prism.
a.

$\underset{\text { BOTtOM }}{\text { TOP I }}=\alpha(3.10)=$

$$
\begin{gathered}
\text { Front \& } 2(6.10)= \\
\text { Back }=\begin{array}{l}
120 \mathrm{~m}^{2}
\end{array}
\end{gathered}
$$


b.
\&


6 frees that are the same size
$\therefore 6(11.11)=$ $6(121)=$
2. Domingo built a toy box 60 inches long, $\mathbf{2 4}$ inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of surface. Does he have enough to paint the toy box? Justify your answer.
(1) Draw \& label net
(2) Build table w/ values for area
(3) Total values in table
(4) Compare total SA. to the area the gt. of Paint covers.



Got It? Do this problem to find out.
d. Find the surface area of the triangular prism.


$$
\begin{aligned}
& \text { bettor } \\
& \text { rectangle }
\end{aligned}=1(4 \cdot 3)=12
$$

$$
\begin{aligned}
& \text { triangles }=2\left(\frac{2.3}{2}\right)=6 \\
&=6 \\
& 38 \mathrm{~cm}^{2}
\end{aligned}
$$

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