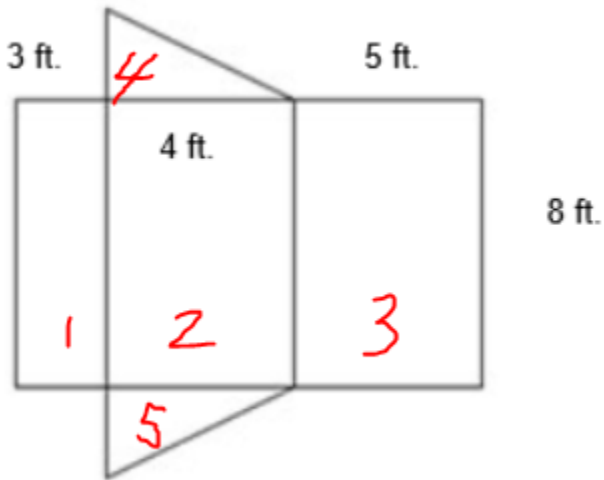


Possible Solution

Billy is creating a box to ship his model airplane. It will ship best in the shape of a triangular prism. How much cardboard will Billy need to make his box in the shape of a triangular prism?



Rectangle 1	$A = l \cdot w$	$A = 3 \cdot 8 = 24 \text{ ft}^2$
Rectangle 2	$A = l \cdot w$	$A = 4 \cdot 8 = 32 \text{ ft}^2$
Rectangle 3	$A = l \cdot w$	$A = 5 \cdot 8 = 40 \text{ ft}^2$
Triangle 4	$A = \frac{1}{2} b \cdot h$	$A = \frac{1}{2} (3 \cdot 4) = 6 \text{ ft}^2$
Triangle 5	$A = \frac{1}{2} b \cdot h$	$A = \frac{1}{2} (3 \cdot 4) = 6 \text{ ft}^2$

Add up the areas of all 5 figures.

$$24 + 32 + 40 + 6 + 6 = 108 \text{ ft}^2$$

Billy will need 108 square feet of cardboard to make his box.