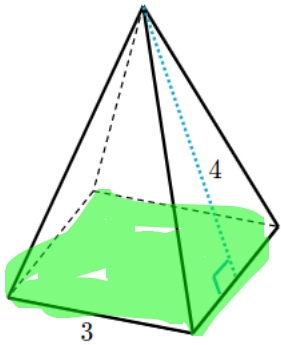


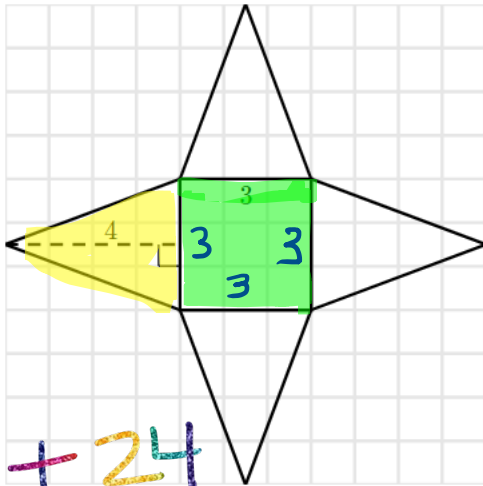
KHAN ACADEMY EXAMPLES FOR SURFACE AREA WITH TRIANGLES

Check out this square pyramid:



→ Base is a square

Find the surface area of the square pyramid (above) using its net (below).



$$\text{Base} = 3 \times 3 = 9$$

Four Triangles

$$4 \left(\frac{1}{2} (3 \times 4) \right)$$

$$4 \left(\frac{1}{2} (12) \right)$$

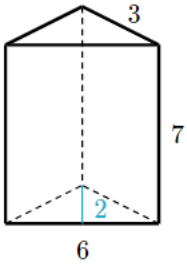
$$4 (6) = 24$$

$$9 + 24$$

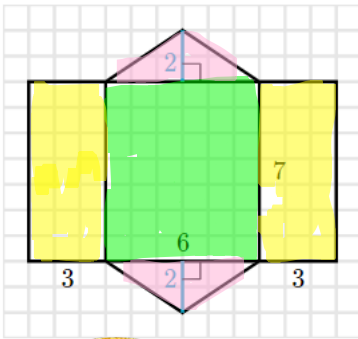
$$33 \text{ units}^2$$

KHAN ACADEMY EXAMPLES FOR SURFACE AREA WITH TRIANGLES

Check out this triangular prism:



Find the surface area of the triangular prism (above) using its net (below).



"Tent"

Base (touches the ground)

$$6 \times 7 = 42$$

Roof (tent top)

$$2(3 \times 7)$$

$$2(21) = 42$$

Front/back (two triangles)

$$2\left(\frac{1}{2}(6)(2)\right)$$

$$2\left(\frac{1}{2}(12)\right)$$

$$2(6) = 12$$

units²

$$\begin{array}{r} 42 \\ 42 \\ + 12 \\ \hline 96 \end{array}$$