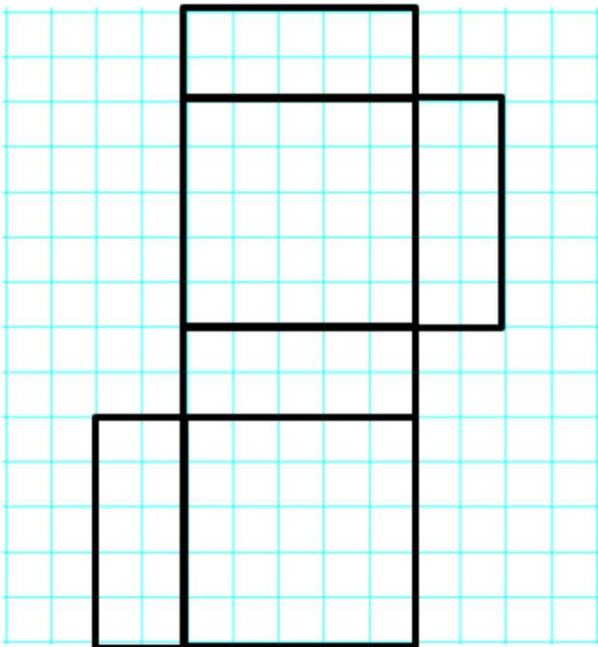
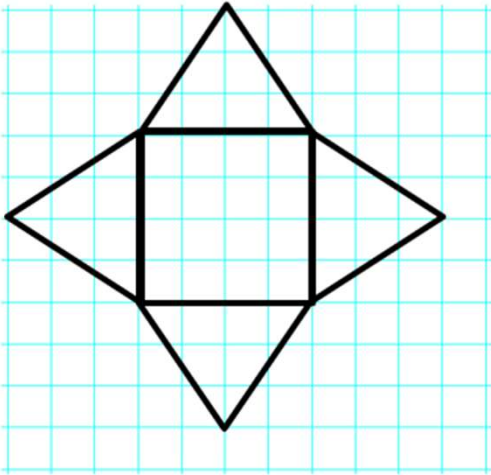


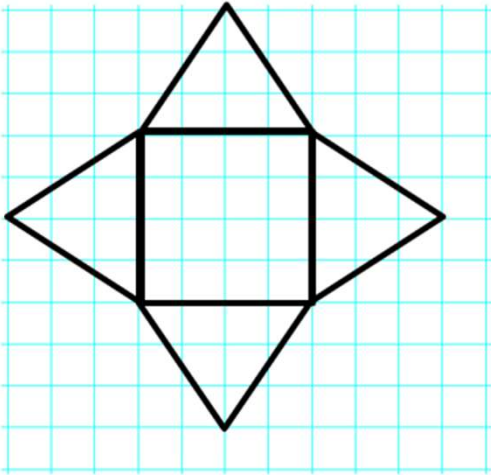
## Geometry Worksheets (Surface Area using Nets)

Name the solid the net would create, and then write an expression for the surface area. Use the expression to determine the surface area. Assume that each box on the grid paper represents a  $1\text{ cm} \times 1\text{ cm}$  square. Explain how the expression represents the figure



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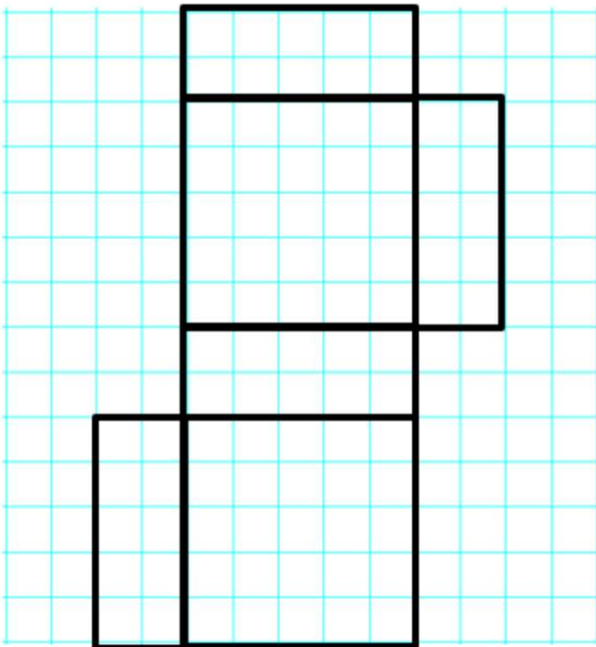
*Name of Shape Square Pyramid*

$$\text{Surface Area: } 4\text{ cm} \times 4\text{ cm} + 4\left(\frac{1}{2} \times 4\text{ cm} \times 3\text{ cm}\right)$$

$$\text{Work: } 16\text{ cm}^2 + 4(6\text{ cm}^2) = 40\text{ cm}^2$$

*The surface area is  $40\text{ cm}^2$ .*

*The figure is made up of a square base that measures  $4\text{ cm} \times 4\text{ cm}$  and four triangles, each with a base of  $4\text{ cm}$  and a height of  $3\text{ cm}$ .*



*Name of Shape: Rectangular Prism*

$$\text{Surface Area: } 2(5\text{ cm} \times 5\text{ cm}) + 4(5\text{ cm} \times 2\text{ cm})$$

$$\text{Work: } 2(25\text{ cm}^2) + 4(10\text{ cm}^2) = 90\text{ cm}^2$$

*The surface area is  $90\text{ cm}^2$ .*

*The figure has 2 square faces, each of which measures  $5\text{ cm} \times 5\text{ cm}$  and 4 rectangular faces, each of which measures  $5\text{ cm} \times 2\text{ cm}$ .*