

The right equilateral triangular prism shown has a height of 15 cm. The triangular base has a height of 3.5 cm and side lengths of 4 cm.



© Thinkstock

a. Sketch and label a net with the measurements.

b. Determine the surface area of the prism.



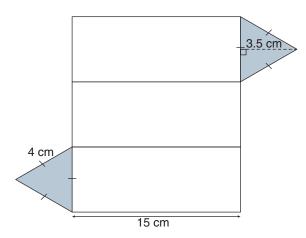
Compare your answers.

The right equilateral triangular prism shown has a height of 15 cm. The triangular base has a height of 3.5 cm and side lengths of 4 cm.



© Thinkstock

a. Sketch and label a net with the measurements.



b. Determine the surface area of the prism.

$$SA = lh + bh + wh + ba$$

 $SA = (4 \text{ cm})(15 \text{ cm}) + (4 \text{ cm})(15 \text{ cm}) + (4 \text{ cm})(15 \text{ cm}) + (4 \text{ cm})(3.5 \text{ cm})$
 $SA = 60 \text{ cm}^2 + 60 \text{ cm}^2 + 60 \text{ cm}^2 + 14 \text{ cm}^2$
 $SA = 194 \text{ cm}^2$

The surface area of the prism is 194 cm².