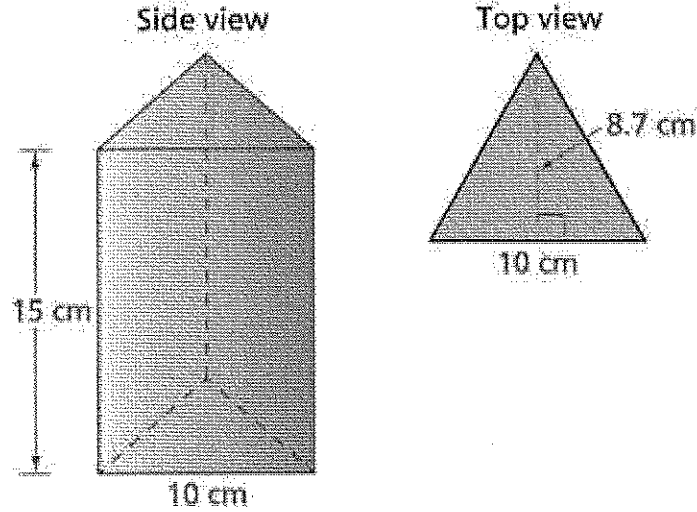


1. Side and top views of a prism whose base and top are equilateral triangles are shown below.



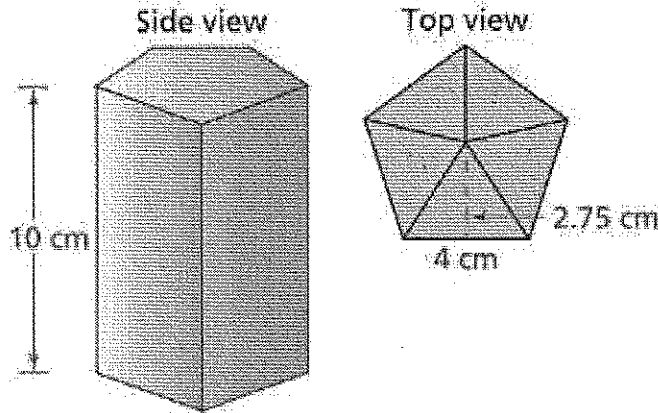
- a) What is the surface area of the prism?

3 sides $3(10 \cdot 15)$ + 2 bases $2(\frac{1}{2} \cdot 10 \cdot 8.7)$ SA = 537 cm²
 450 + 87

- b) What is the volume of the prism?

area of base (height) $(\frac{1}{2} \cdot 10 \cdot 8.7) \cdot 15$ volume $43.5(15) = 652.5$ cm³

2. The sketch below shows side and top views of a prism with a base and top that are regular pentagons.



area of one base
 5 triangles
 $5(\frac{1}{2} \cdot 4 \cdot 2.75)$
 $5(5.5)$
 27.5

- a) What is the surface area of the prism?

5 sides $5(10 \cdot 4)$ + 2 bases $2(27.5)$ $200 + 55 = 255$ cm²

- b) What is the volume of the prism?

area of base (height) $(27.5)(10) = 275$ cm³