

Volume of Prisms

Formula: $V = Bh$

$B =$ area of the base

Rectangular Prism: Base = Rectangle $B = lw$

$V = \frac{lw \cdot h}{B}$

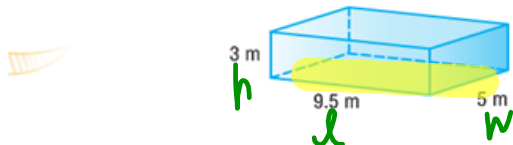
Triangular Prism: Base = Triangle

$B = \frac{1}{2}bh$

$V = \left(\frac{1}{2} \cdot b \cdot h \right) \cdot h$

* Find "Big B" FIRST

a. Find the volume of the rectangular prism shown below.



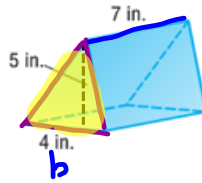
$V = Bh$

$V = l \cdot w \cdot h$

$9.5(5)(3)$

$V = 142.5m^3$

b. Find the volume of the triangular prism.



$$V = Bh$$

↓

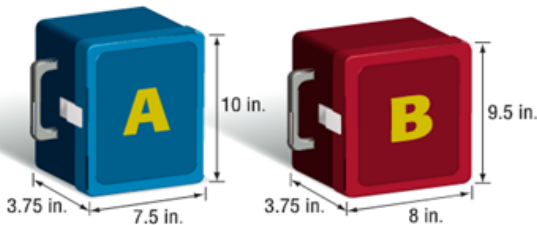
$$\left(\frac{1}{2} \cdot 4 \cdot 5\right) 7$$

$$70 \text{ in}^3$$

B = Area of the Base

Volume - units³

Which lunch box holds more food?



B holds 3.75 more cubic inches.

Find the volume of each lunch box. Then compare.

A	B
lwh $3.75 \cdot 7.5 \cdot 10$ 281.25 in^3	lwh $3.75 \cdot 8 \cdot 9.5$ 285 in^3