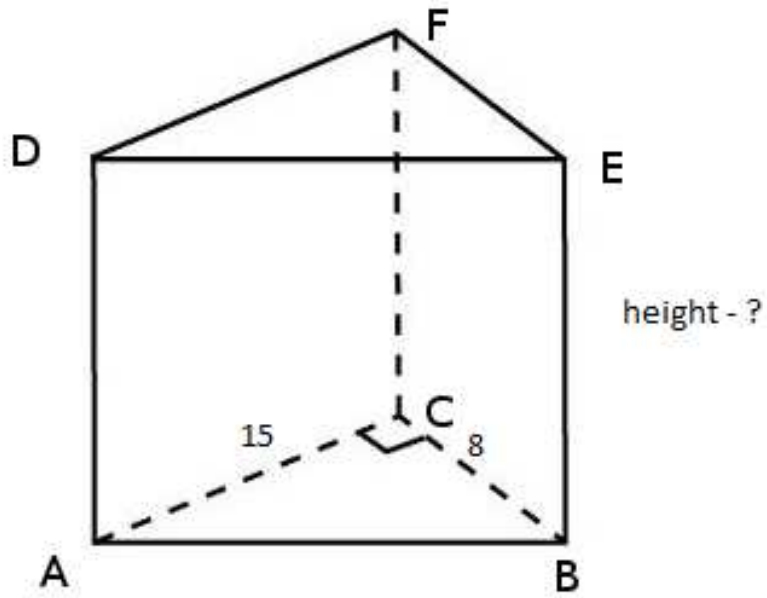

we know that for prism Volume=Area of base * height
from this formula we have
$height = \frac{Volume}{Areaofbase}$
We know that
$Volume = 1440cm^3$
In our case base is right triangle ABC
$area(ABC) = 0.5 * AC * BC = 0.5 * 15 * 8cm^2 = 60cm^2$
$height = \frac{1440cm^3}{60cm^2} = 24cm$
so height = 24 cm