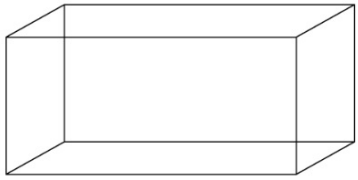
Finding the volume of rectangular prisms with fractional side lengths

Connect

	Outside of figure	Inside of figure
2-D figures	 perimeter cm, in	area cm^2 in^2
3-D figures	 surface area cm^2 in^2	volume cm^3 in^3

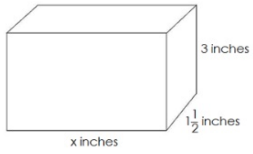
I do - basic

What is the volume of the rectangular prism?



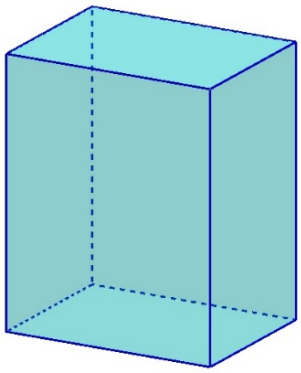
I do - advanced

A box has a volume of 22 in^3. What is the length of the box?



We do - basic

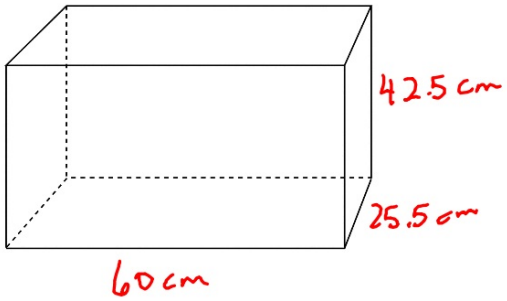
What is the volume of the prism?



We do - advanced

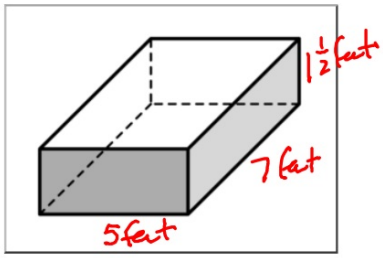
An aquarium in the shape of a rectangular prism is 12.5 inches long, 6 inches wide and 8 inches high. What is the total amount of water needed, to the nearest cubic inch, to fill 90% of the aquarium with water?

You do together on whiteboard



How many cubic inches of water will it take to fill this aquarium 75% of the way to the top with water?

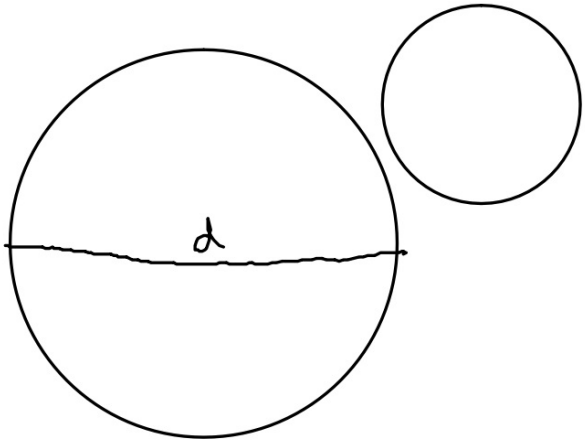
You do alone on index card



How many 1 cubic foot cubes would fit into this prism?

pie π

$\frac{C}{d} = 3.1415927$



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