

Volume of Prisms

Name: _____

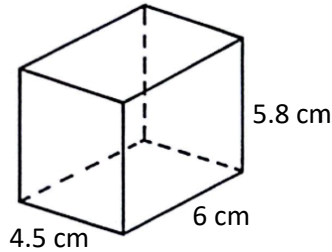
Find the volume of each prism using the formulas below:

$$V = (\text{length})(\text{width})(\text{height}) \text{ OR}$$

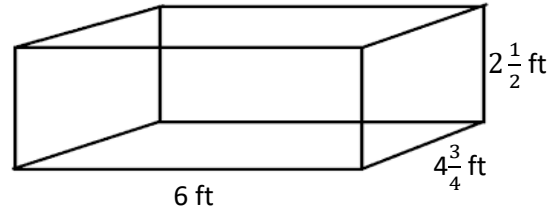
$$V = (\text{area of the base})(\text{height})$$

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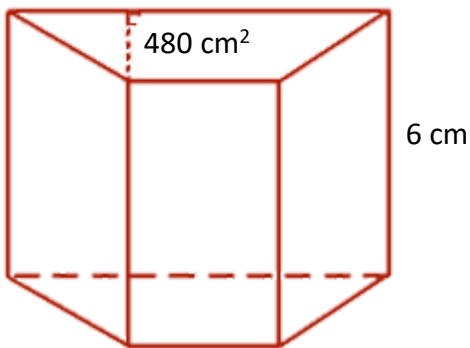
1) Find the volume of the rectangular prism below.



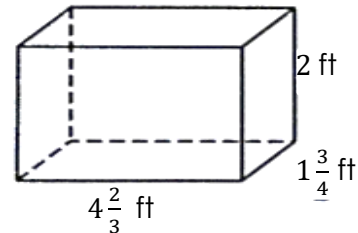
2) How many cubic feet of storage is in the box below?



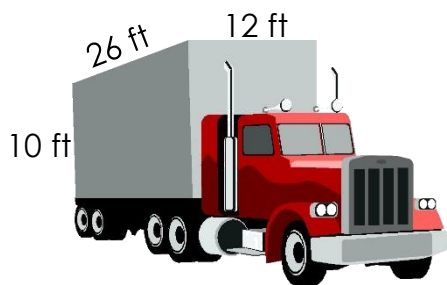
3) The trapezoidal prism below is filled with chocolate. How many cubic centimeters of chocolate will fit inside of the prism?



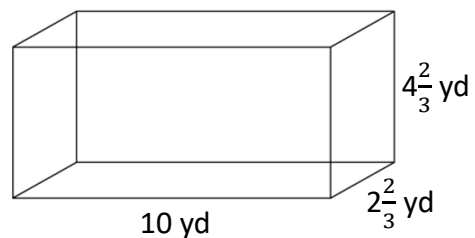
4) Find the volume of the rectangular prism below.



5) The truck below is filled with 1-foot boxes. How many boxes will fit inside of the truck?



6) Aimee's attic has the dimensions shown below. How many cubic yards of storage does Aimee have in her attic?



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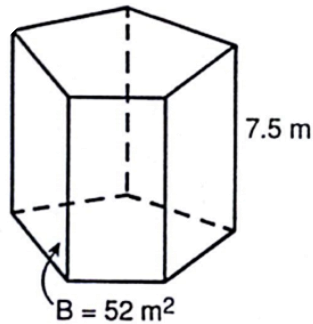
Find the volume of each prism using the formulas below:

$$V = (\text{length})(\text{width})(\text{height}) \text{ OR}$$

$$V = (\text{area of the base})(\text{height})$$

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7) A hot tub is the shape of a pentagonal prism. How many cubic meters of water will fit inside of the hot tub?



8) A cereal box is shown with the dimensions below. How many cubic inches of Honey Nut Cheerios will Jenai get to eat?



9) Ms. Balsler LOVES extra toasty Cheez Its. The box is shown below. How many cubic inches of Cheez-Its will fit inside the box?



10) Each Cheez-it takes up about 0.8 in^3 . If the box is completely filled, how many Cheez-Its will fit inside?

11) The octagonal prism shown below is filled with CANDY!! How many cubic centimeters of candy are inside the tin?



12) The box of candy costs \$0.002 per cubic centimeter of candy. How much does the box cost?