Grade 7/8 Math

Volume Practice Test 1 2023 answers

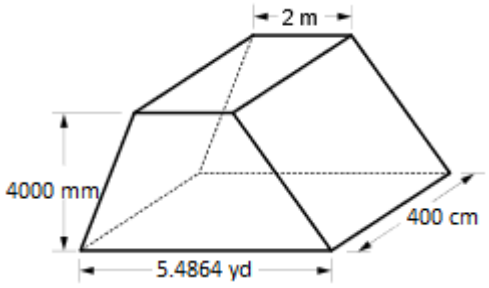
Name : _____ Class: _____ Date: _____

For use on this test, here are the common conversions table.

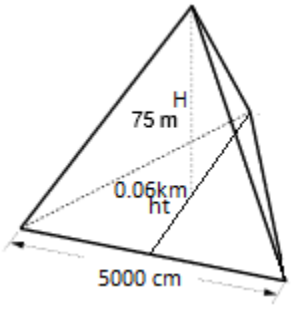
Units	To units	Linear Conversion factor	Square Conversion Factor	Cubic Conversion Factor
Centimetres	Inches	2.54 cm/in	6.4516 cm^2/in^2	16.3871 cm^3/in^3
Yard	Metre	0.9144 yd/m	0.8361 yd^2/m^2	0.7646 yd^3/m^3
Inches	Feet	12 in/ft	144 in^2/ft^2	1728 in^3/ft^3
Feet	Yard	3 ft/yd	9 ft^2/yd^2	27 ft^3/yd^3
Feet	Metre	0.3048 ft/m	0.0929 ft^2/m^2	0.02832 ft^3/m^3

Make sure that you have your formula sheet for the test too. I will not be handing out copies.

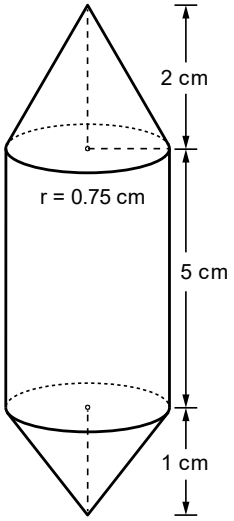
1. Find the volume of this trapezoidal prism.



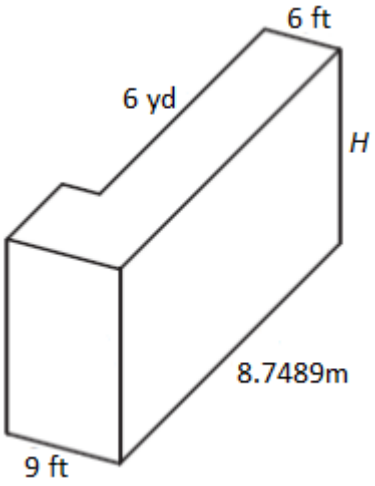
2. Find the volume of this triangular-based pyramid.



3. Find the volume of this composite shape. **Don't Round.**



4. If the Volume of this L-Block is 108 yd^3, what is the height?



What is the volume of this L-Block in cubic feet (ft^3)?

What would it be in cubic inches (in^3)?

5. An rectangular underground bunker is 12 yd wide, 7 yd long and 3 yd high. What is the volume of this space?

If each person needs 54 cubic feet of space, how many people can fit in the bunker?

6. The Great Pyramid is the only one of the Seven Wonders of the World left standing today. As perhaps the largest single building ever constructed, it is a wonder mainly because of its scale and because of the incredible precision with which the work was executed. The pyramid originally stood about 482 feet (147 m) high with four equal sides each measuring about 755 feet (230 m). What is the volume of the pyramid in cubic metres?

https://www.britannica.com/place/Great-Pyramid-of-Giza

What is the volume in km^3? **Don't Round.**

7. A large cylindrical can of tomatoes holds 4019.2 mL and has a diameter of 16 cm. What is the height to the nearest cm?

8. If you have time, come up with your own volume/conversion question based on a famous structure or shape.