STUDENT MATERIALS

A family is moving to a new house. They packed up their belongings and filled a bunch of boxes. Now, they need to figure out which size truck to rent.

Task 1

The truck company sent you the following specifications of each truck. You need to start by finding the overall volume of each truck. Using the measurements they provided in the chart, find the volume that each truck can hold.

Type of Truck	Measurements	Capacity in Cubic Feet
12' Moving Truck	12' x 6.5' x 6.08'	474.24 cubic f
15' Moving Truck	15' x 7.6' x 7.2'	820.8 cubic ft.3
20' Moving Truck	19.5' x 7.6' x 7.2'	1067,04 cubic ft3
22' Moving Truck	21.9' x 7.6' x 7.2'	1198.368 cubicft.3

Task 2

Before you can find the overall volume of your boxes you will need to find the volume of each size (small, medium, large, extra-large). Don't forget the quantity of each box used. Be sure to show your work and how you calculated the overall volume.

Box Dimensions

Box Size	Number of Individual Boxes	Dimensions	Capacity in Cubic Feet Per Box	Total Cubic Feet Per Box Type
Small	110	1.3′ x 1′ x 1′	1.3	443
Medium	80	1.5' x 1.3' x1.5'	2.925	Z34
Large	36	1.5 x 1.5' x 2'	4.5	162
Extra Large	70	2' x 1.6' x 2'	6.4	448



Task 3

Which moving truck would you choose? Explain your rationale and be sure to use data to justify your answer.

I would choose 22' Movingtruck because the volume would fit everything and it would have a lot of aditional space.

Task 4

At the last minute, the family decided to bring their 10'x8'x5' outdoor storage container with them. Would this fit in the truck that you selected? Explain and show your work.

No, because the volum-off the Moving truck still isn't enough.

Small box = 143 cubic ft. 3

Mediam box = 234 cubic ft. 3

Large box = 162 cubic ft. 3

XL box = 448 cubic ft. 3

MiPAC MA.7.6 - Moving Mystery

Grade 7

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