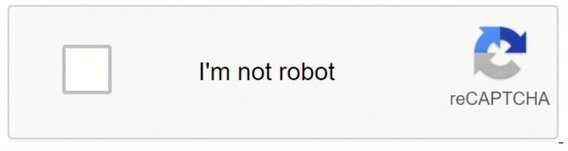


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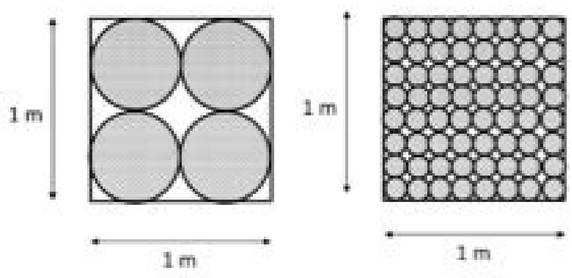
**CEEN 3342 – Geotechnical Engineering**
**Fall 2018**
**Homework #1**
**Due: Tuesday, September 11, 2018**

Problem 1

There are two cubic boxes with dimension of 1 m × 1 m × 1 m containing spheres and their cross-section are shown below. For each box, determine the (1) number of spheres in the boxes, (2) porosity/void ratio inside the boxes, (3) surface area of each sphere (larger and smaller ones), and (4) sum of surface area of all the spheres in each box.




Problem 2

In its natural state, a moist soil has a volume of 0.33 $ft^3$ and weighs 39.93 lb. The oven-dry weight of the soil is 34.54 lb. If $G_s = 2.67$, calculate the moisture content, moist unit weight, dry unit weight, void ratio, porosity, and degree of saturation.

Problem 3

The moist weight of 0.2 $ft^3$ of a soil is 23 lb. The moisture content and the specific gravity of the soil solids are determined in the laboratory to be 11% and 2.7, respectively. Calculate the following:

**a.** Moist unit weight ($lb/ft^3$)
**b.** Dry unit weight ($lb/ft^3$)
**c.** Void ratio
**d.** Porosity
**e.** Degree of saturation (%)
**f.** Volume occupied by water ($ft^3$)

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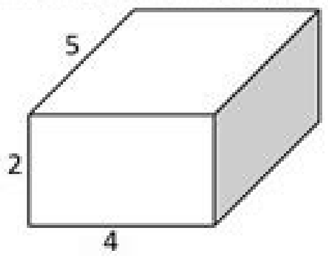
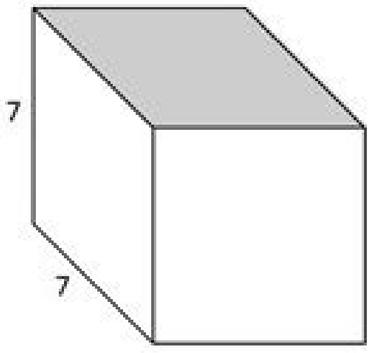
# Quiz & Worksheet - Finding the Volume of Prisms and Pyramids

1. What is the volume of this prism?



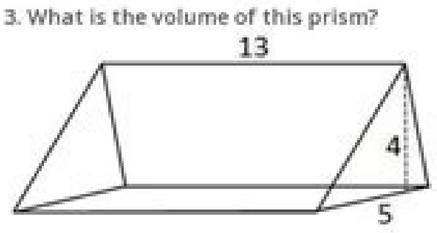

- 20
- 40
- 11
- 50
- 45

2. What is the volume of this cube?




- 343
- 49
- 172
- 14
- 21

3. What is the volume of this prism?




- 130
- 117
- 260
- 50
- 220



Name: _____

At Houdini Magic Shop in Matthews there is a book of magic tricks that costs $5.95. If you are a member of Houdini Magic Shop Book Club you can get 20% off. How much would you save on the book by being a member of the book club?

Former Ochos produced 1.25 times as much corn this season as he did last season. What was the season's production compared to last season's expressed as a percent?

The equation r + 2 = 9 describes the number of runs hit by the Tigers and the Panthers in the last game. If r is the number of hits made by the Tigers, how many hits did the Panthers have?

Name: _____

At Houdini Magic Shop in Matthews there is a book of magic tricks that costs $5.95. If you are a member of Houdini Magic Shop Book Club you can get 20% off. How much would you save on the book by being a member of the book club?

Former Ochos produced 1.25 times as much corn this season as he did last season. What was this season's production compared to last season's expressed as a percent?

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