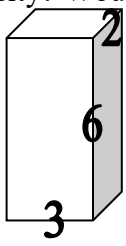
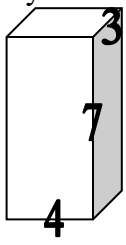
Density Review NAME_____ HOUR____

1. Write the formula for density.
2. If a hunk of metal has a mass of 200g and a volume of 150 cm_3. What is its density?
3. If a hunk of metal has a volume of 30 cm_3 and a mass of 50g. What is its density?
4. If a glass of water has a mass of 75g and a volume of 75 mL. What is its density?
5. If a glass of alcohol has a volume of 445 mL and a mass of 500g. What is its density?
6. If a piece of oak has a mass of 600g and a volume of 1000 cm_3. What is its density?
7. If a piece of ebony has a volume of 1000 cm_3 and a mass of 750g. What is its density?
8. Which piece of wood is bigger?
9. Which one feels heavier when you hold it?
10. If a glass of coke has a density of 1.1 and a mass of 110 g, what would the volume be? (in mL)
11. If a glass of salt water has a density of 1.03 and a volume of 100 mL, what would the mass be? (in g)
12. The mass of this wood block is 20 g. The measurements below are in cm. What is its density? Would it float or sink?



13. The mass of this metal block is 90 g. The measurements below are in cm. What is its density? Would it float or sink?



Pressure Review NAME_____ HOUR_____

1. Write the formula for pressure.

2. If a hunk of metal has a weight of 200lb and a bottom surface area of 150 in^2 how much pressure will it exert?

3. If a hunk of metal has a weight of 100lb and a bottom surface area of 300 in^2 how much pressure will it exert?

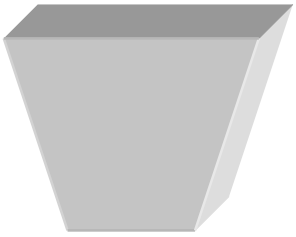
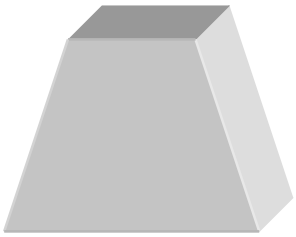
4. If a shoe (with a person in it) has a weight of 75lb and a bottom surface area of 24 in^2 how much pressure will it exert?

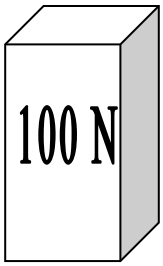
5. If a file cabinet has a weight of 1000 N and a bottom surface area of 2500 cm^2 how much pressure will it exert?

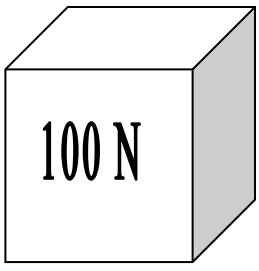
6. If a desk has a mass of 200lb and there are 4 legs, how many pounds is each leg supporting?

7. If this same desk's legs are 2.25 in^2 , how much pressure is exerted on the floor tile underneath one of them?

8. Circle the object that exerts more pressure.

A  B 

A 

B 

A 

B