4.

.8 (Classwork: Density of 3-dimensional objects, weight and cost
1.	Find the weight of a metal block with a volume of 20 cubic inches and a density of 0.75 pounds per cubic inch.
2.	A large block of ice has a volume of 45 liters. The density of ice (water) is one kilogram per liter. Find the weight of the ice.
3.	A tank of gasoline holds 20 gallons. Find the cost to completely fill the tank if gasoline costs $\$2.35$ per gallon.
4.	A bar of solid gold is in the shape of a rectangular prism having a length of 10 cm, width of 4 cm, and thickness of 1.5 cm. The density of gold is 19.3 grams per cubic cm, and its approximate market value is \$50 per gram. (a) Find the weight of the bar of gold.
	(b) Find its value in dollars.

Applying density ratios

5.	Find the weight of a metal block with a volume of 20 cubic inches and a density of 0.75 pounds per cubic inch.
6.	A large block of ice has a volume of 45 liters. The density of ice (water) is one kilogram per liter. Find the weight of the ice.
7.	A tank of gasoline holds 20 gallons. Find the cost to completely fill the tank if gasoline costs $\$2.35$ per gallon.
8.	A bar of solid gold is in the shape of a rectangular prism having a length of 10 cm, width of 4 cm, and thickness of 1.5 cm. The density of gold is 19.3 grams per cubic cm, and its approximate market value is \$50 per gram. (a) Find the weight of the bar of gold.
	(b) Find its value in dollars.