

Concentration Practice Problems

1. Given the following maximum permitted levels, are the following heavy metal concentrations acceptable for drinking water?

a) 4 mL of arsenic in 1000 L of water

b) 5 mL of chromium in 500 L of water

c) 1 mL of selenium in 100 L of water

d) 0.05 mL of lead in 10 L of water

Maximum permitted levels (ppm)	
Arsenic	5.0
Chromium	8.9
Lead	7.0
Selenium	1.0

2. Sharks can detect blood in water at concentrations of 1 ppb and greater. Would a shark be able to detect 3 mL of blood in 500 000 L of water?