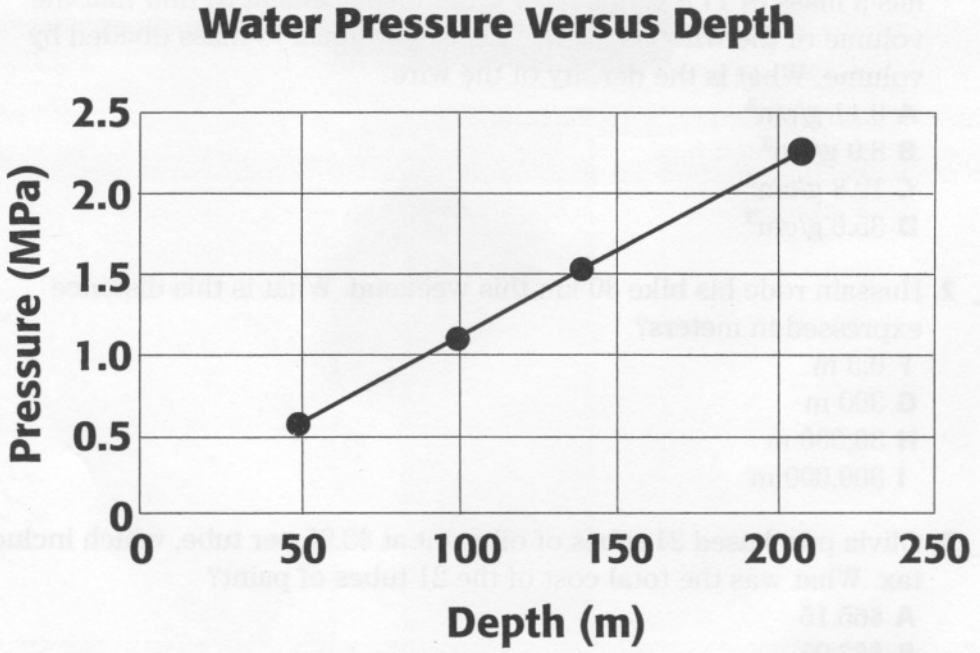
INTERPRETING GRAPHICS

The graph below shows the water pressure measured by a scientist at different depths in the ocean. Use the graph below to answer the questions that follow.



_____ **1.** What is the pressure on the object when it is 100 m underwater?

A 1.0 MPa
B 1.1 MPa
C 1.5 MPa
D 2.0 MPa

_____ **2.** Based on the data in the graph, which of the following is the best estimate of the pressure at 250 m below the surface of the ocean?

F 1.7 MPa
G 2.2 MPa
H 2.6 MPa
I 5.0 MPa

_____ **3.** Which of the following statements best describes the relationship between the water pressure on an object and the depth of the object in the ocean?

A Water pressure increases as the depth increases.
B Water pressure decreases as the depth increases.
C Water pressure does not change as the depth increases.
D Water pressure has no predictable relationship to the depth.

MATH

Read each question below, and choose the best answer.

_____ **1.** Anna-Marie has a coil of wire. She uses a balance to find that the wire has a mass of 17.8 g. She uses water displacement to find that the volume of the wire is 2.0 cm^3. Density is equal to mass divided by volume. What is the density of the wire?

A 0.11 g/cm^3
B 8.9 g/cm^3
C 19.8 g/cm^3
D 35.6 g/cm^3

_____ **2.** Hussain rode his bike 30 km this weekend. What is this distance expressed in meters?

F 0.3 m
G 300 m
H 30,000 m
I 300,000 m

_____ **3.** Olivia purchased 21 tubes of oil paint at $3.95 per tube, which includes tax. What was the total cost of the 21 tubes of paint?

A $65.15
B $82.95
C $89.10
D $93.50

_____ **4.** Javi filled a container halfway full with water. The container measures 2 m wide, 3 m long, and 1 m high. How many cubic meters of water are in the container?

F 2 m^3
G 3 m^3
H 5 m^3
I 6 m^3

_____ **5.** Pressure is equal to force divided by area. Jenny pushes a door with a force of 12 N. The area of her hand is 96 cm^2. What is the pressure exerted by Jenny's hand on the door?

A 0.125 N/cm
B 0.125 N/cm^2
C 8 N/cm
D 8 N/cm^2