

### Question 1

For each of the following statements, select "Yes" if the statement is true based on the information provided; otherwise select "No."

	Yes	No	
A	<input type="radio"/>	<input type="radio"/>	The difference between the sales volume of Austere Corporation and Pedro Corporation is more than 1,250,000 cartons.
B	<input type="radio"/>	<input type="radio"/>	For the Apex Corporation, sales revenue from the Eastern region is more than that from the Northern region.
C	<input type="radio"/>	<input type="radio"/>	For the Apex Corporation, sales revenue from Mosquito Coil is more than that from Mosquito Refill.

### Question 2

If the Pedro Corporation sells exactly the same kinds of mosquito repellent products as does Apex Corporation: Coils, Refills, Cream, and Gel, and it has the same proportion of sales volume for the four products as does Apex Corporation, then how many Gel cartons did the Pedro Corporation sell?

- (A) 38,000
- (B) 77,000
- (C) 170,000
- (D) 374,000
- (E) 1,250,000

### Question 3

Keeping the total sales volume the same for the Apex Corporation, which of the following rearrangement of sales volume of products will generate more sales revenue than currently?

- (A) Reduce the Mosquito Coil sales volume by half and increase the sales volume of Mosquito Repellent Gel by the same amount.

(B) Reduce the Mosquito Refill sales volume by one-third and increase the sales volume of Mosquito Repellent Cream by the same amount.

(C) Reduce the Mosquito Cream sales volume by 20% and increase the sales volume of Mosquito Repellent Gel by the same amount.

(D) Reduce the Mosquito Coil sales volume by 33.33% and increase the sales volume of Mosquito Repellent Cream by the same amount.

(E) Reduce the Mosquito Repellent Cream sales volume by 66.66% and increase the sales volume of Mosquito Coil by the same amount.

**Question 4**

[Statement from the Board of Education]

*The recent finding that our school's water system has been contaminated with lead is understandably shocking to parents. When we first discovered traces of lead in our water system, we were assured by local authorities that the levels were not dangerously high, and that running the taps prior to the school day would eliminate any risk posed to children. We now know that the levels are too high, and have taken appropriate measures to inform parents and students to ensure that no one is at risk.*

[Article by Journalist]

*The revelation that Borough Middle School has been allowing students to drink contaminated water for months is just one of a series of incidents throughout the county that has demonstrated negligence on the part of local and state authorities. In an effort to do as little as possible, the school instructed workers to remain quiet about the situation and open the taps every morning, believing that this would eliminate most of the lead in the water supply. However, the school should have informed families and students of the potential health hazards and allowed them the opportunity to make their own informed choices regarding these risks.*

*Which of the following, if true, would best support the journalist's conclusion that the actions of the school were negligent?*

A) By law, schools do not have to inform families of lead unless they reach dangerously high levels as mandated by state authorities.

B) The risk levels for lead consumption are different among children and adults.

C) It is unknown how much lead is truly safe for children and adolescents to consume.