

Name:

Number Patterns HW

Question 1

Fill in the missing numbers:

40	38	36	34	32					
----	----	----	----	----	--	--	--	--	--

Question 2

Michelle makes jewelry boxes containing drawers of equal size. The numbers of drawers in three different jewelry boxes and the corresponding total volumes of the drawers are shown in the table below.

JEWELRY BOXES

Number of Drawers	Total Volume (cubic inches)
2	5
3	7.5
4	10

Write an equation for the relationship between the number of drawers in the jewelry box, d , and the total volume of the drawers in the jewelry box, V . Use your equation to determine the number of drawers in a jewelry box with a total volume of 17.5 cubic inches.

Question 3

Madison and Pedro each created a number pattern that began with the number 0.

- Madison used the rule "Add 4."
- Pedro used the rule "Add 12."

Which statement is true about each corresponding pair of numbers in the two patterns?

- A** Each number in Pedro's pattern is 8 less than the corresponding number in Madison's pattern.
- B** Each number in Pedro's pattern is 8 more than the corresponding number in Madison's pattern.
- C** Each number in Pedro's pattern is 3 times less than the corresponding number in Madison's pattern.
- D** Each number in Pedro's pattern is 3 times more than the corresponding number in Madison's pattern.