Review D

Constructed Response Practice: Patterns, Functions, and Algebra

P.1.A P.1.B P.2.A P.2.B P.3.A P.3.B P.3.E
P.4.C P.4.D P.5.A P.5.B P.5.D P.5.E P.5.F P.6.A P.6.B P.6.E P.6.F

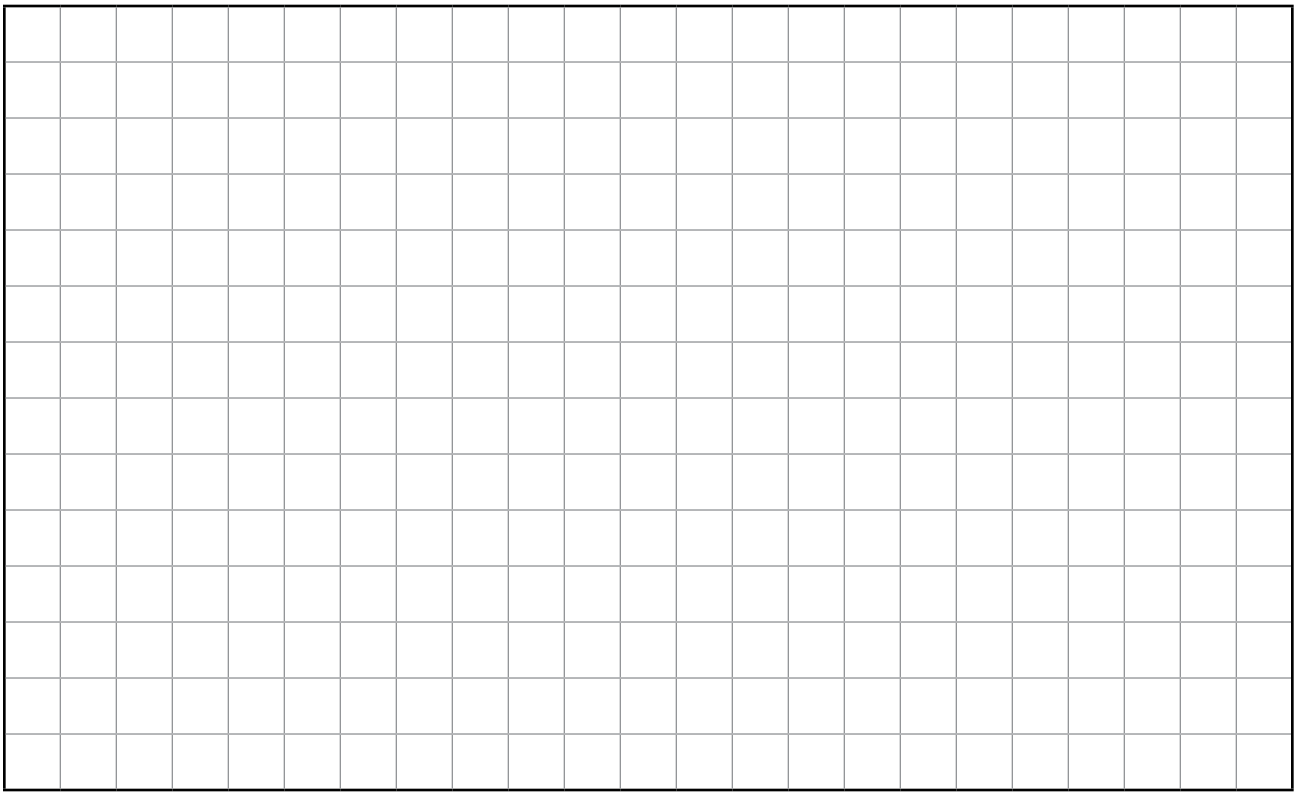
1. Ms. Rodriguez started this pattern on the board.

   10, 22, 46, 94, 190

   What is the rule of the pattern?

   What are the next 3 numbers in the pattern? Show your work.

   Explain how you could find the two numbers that occurred before 10 in the pattern. What are they?



Patterns can involve more than one operation.

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2. To buy 3 new tires, a repair shop must spend $165. To buy 5 tires, a repair shop must spend $275, and 8 tires cost $440. The number of tires and their cost forms a function.

   What is the rule of the function? Let *x* represent the tires and *y* represent the cost.

   Using the function, complete the table.

Cost of Tires

Tires	Cost
3	$165
5	$275
8	$440
12	
20	

If the cost of the tires was $2,750, how could you find how many tires the repair shop bought? Show or explain your work.

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