



Name: _____ Date: _____

Pattern Rules

1. Which of the following might be a rule for this pattern?
The variable n represents the term position.

8, 12, 16, 20, ...

- A $8n$
- B $4n + 4$
- C $8n + 4$
- D $4n$

2. Which of the following might be a rule for this pattern?

5, 10, 20, 40, 80, ...

- A Double each number.
- B Start at 5 and double each term to get the next term.
- C Start at 5 and keep adding 5.
- D Start at 5 and keep adding 5 more each time.

3. Write three pattern rules for this pattern:

5, 8, 11, 14, ...



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Pattern Rules (continued)

4. a) Use algebra to write a pattern rule that relates the term position to its value in this linear pattern:

7, 13, 19, 25, ...

- b) How could you use the rule to figure out the 15th term?

5. Why can't you be completely sure of the 10th term in the pattern 3, 6, 9, 12, ... ?