Patterning & Algebra Quiz

Term Number and Term Value

{Freebie} & Includes Answer Key!

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Name: _____

Algebra Quiz /16

Term Number (n)	1	2	3	4	5
Term Value	5	7	9		

1. Use the above table to complete these questions:
    a. Complete the table for term value 4 and 5. (/2)
    b. Create an expression for the pattern. (/2)

    c. What is the term value for term number 52? (/3)

2. Mark works at a bike store. He makes $30 per day. For every bike that he sells, he will make $20.
    a. What is the unknown? Identify it and create a variable. (/2)

    b. Write an expression for how much Mark can make in one day. (/2)

    c. Last Saturday, Mark sold 5 bikes. How much money did he make that day? (/5)

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Algebra Quiz—Answer Sheet

Term Number (n)	1	2	3	4	5
Term Value	5	7	9	11	13

1. Use the above table to complete these questions:
   a. Complete the table for term value 4 and 5. (/2)
   b. Create an expression for the pattern. (/2)

      2n + 3

   c. What is the term value for term number 52? (/3)

      Let n = 52,
      2n + 3
      = 2(52) + 3
      = 104 + 3
      = 107

2. Mark works at a bike store. He makes $30 per day. For every bike that he sells, he will make $20.
   a. What is the unknown? Identify it and create a variable. (/2)

      The unknown is the number of bikes he sells
      Let n (or any other letter) represent the number of bikes sold

   b. Write an expression for how much Mark can make in one day. (/2)

      daily total = 30 + 20n

   c. Last Saturday, Mark sold 5 bikes. How much money did he make that day? (/5)

      Let n = 5,

      daily total = 30 + 20n
      = 30 + 20(5)
      = 130

      Therefore, Mark made $130 last Saturday.

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