Unit 6, Lesson 11 Homework

Name:

Date:

Block

1. Complete Each Function Table.

|  |  |  |
| --- | --- | --- |
| x | 2x – 3 | y |
| -2 |  |  |
| -1 |  |  |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |

x -2x – 3 y

-2

-1

0

1

2

2. Patterns (Show Your Work).

a) Matt was doing some research on the price of skateboards and he noticed a pattern. He noticed that *Model A* costs $99.50, *Model B* costs $124.50, and *Model C* costs $149.50.

What should *Model D* cost? Is this an arithmetic or geometric pattern?

What is the pattern?

b) A famous rock star is losing fans. Look at her sales chart.

|  |  |
| --- | --- |
| Album 1 | 256 million |
| Album 2 | 128 million |
| Album 3 | 64 million |
| Album 4 |  |

What should her album 4 sales be if this pattern continues?

What is the pattern?

Is this an arithmetic or geometric pattern?

c) Complete the pattern: x + 2, x + 4, x + 6, x + 8, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_

d) Complete the pattern: 2m – 6, 4m – 4, 6m – 2, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_

Turn Paper Over

b. There are 12 eggs in every carton. Write a function rule and complete the function table that shows how many eggs are found in 1, 2, 3, 4, and 5 cartons.

a. Make a function table for the function rule 2x +3. For x, use all natural numbers less than 6. (if you don’t remember what natural numbers are, go online or the very first lesson I taught you)

3. For each problem below, draw a function table and complete it as instructed.

4. For each problem below, complete the function table **and** graph the function.

b. “Party Makers,” a local party company, charges $120 to set up your party, plus $15 per person attending. Your function table will show how much it costs for 20, 30, 40, and 50 people.

a. Sarah receives $10.00 for shoveling snow in the neighborhood. Your function table should show how much money she will receive for shoveling 3, 6, 9, and 12 driveways.

*x*

*y*

*x*

*y*