100%

Evan Zapendo math 6b 5/9/10

PATTERNS Practice Set 4 of 4

1. A class put three cans full of water in the sun. Each can was covered and had a thermometer in it to measure the temperature of the water in degrees Fahrenheit. One can was painted red, one can was painted blue, and one can was painted yellow. The class collected the data shown below. According to the pattern from the data, what would be the predicted temperature of the water in the blue can at 5 hours?
   A. 42°F
   B. 65°F
   C. 68°F
   D. 70°F

	Red Can	Blue Can	Yellow Can
Start	40°F	40°F	40°F
1 hour	43°F	42°F	40°F
2 hours	47°F	46°F	41°F
3 hours	52°F	52°F	41°F
4 hours	58°F	60°F	42°F

2. A class has 3 tanks with animals in them. One tank has 2 guppies, another tank has 2 turtles, and the last tank has 2 mice. The class measures the reproduction rates of the animals by counting how many animals are in each tank every month. According to the pattern from these data, how many mice will there be after 5 months?
   A. 2 mice
   B. 24 mice
   C. 32 mice
   D. 64 mice

	Guppies	Turtles	Mice
Start	2	2	2
1 month	20	2	4
2 months	200	2	8
3 months	2,000	2	16

3. Janie has a pool in her backyard filled with 5 feet of water. Every day, an inch of water evaporates. How much water will be in Janie's pool after two weeks?
   A. 3 feet, 8 inches
   B. 3 feet, 10 inches
   C. 4 feet
   D. 6 feet, 2 inches

5 10
~~6 0~~
14
46

4. At the start of 3rd grade, Carrie was 4 feet tall. In 3rd grade, she grew 2 inches. In 4th grade, she grew 3 inches. In 5th grade, she grew 4 inches. If this pattern continues, how tall will she be at the END of the 6th grade?
   A. 4 feet, 9 inches
   B. 4 feet, 14 inches
   C. 5 feet, 2 inches
   D. 5 feet, 5 inches

5 3 4 ft
3 4.2 ft
4 4.5 ft
5 4.9
6 5.2

5. Use the table to determine the rule for the function.
   A. $m + 5 = k$
   B. $k + 5 = m$
   C. $(k \times 2) + 1 = m$
   D. $k + 4 = m$

k	m
4	9
6	11
13	18
22	27