

Assignment Record Sheet

Math Core B

Full Name: _____

Week: 3/9- 3/13

Unit Name: Variables and Patterns

Period: 2

Date Assigned	Focus Question??	Homework (IP=in packet)	Meets Expectation (15 points)	Approaching Expectations (5 points)	Below Expectation (0 points)
Monday Mar. 9	<i>What strategies can you use to solve equations in the forms $a + b = b$, $x - a = b$, and $x/a = b$ ($a \neq 0$).</i>	WU: None CW: Unit Test Review – Day 1 (IP) HW: None	WU: CW: HW:		
Tuesday Mar. 10	<i>What strategies can you use to solve equations in the forms $a + b = b$, $x - a = b$, and $x/a = b$ ($a \neq 0$).</i>	WU: None CW: Unit Test Review – Day 2 (IP) HW: Study for Test	WU: CW: HW:		
Wed. Mar. 11	<i>What strategies can you use to solve equations in the forms $a + b = b$, $x - a = b$, and $x/a = b$ ($a \neq 0$).</i>	WU: None CW: Unit Test – Day 1 HW: None	WU: CW: HW:		
Thursday Mar. 12	<i>What strategies can you use to solve equations in the forms $a + b = b$, $x - a = b$, and $x/a = b$ ($a \neq 0$).</i>	WU: None CW: Unit Test – Day 2 HW: None	WU: CW: HW:		
Friday Mar. 13	<i>What strategies can you use to solve equations in the forms $a + b = b$, $x - a = b$, and $x/a = b$ ($a \neq 0$).</i>	WU: None CW: Math Review HW: None Turn in your packet	WU: CW: HW:		

Total Homework Score for the Week: _____/75

--	--	--	--	--	--	--	--

Daily Materials Score _____/25

Variables and Patterns

Unit Test - Review

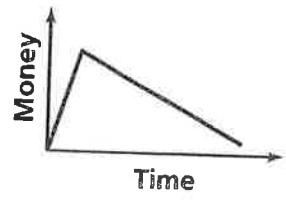
1. The tour operators thought it would be a good idea to get a souvenir T-shirt for each customer who went on the Ocean Bike Tour. They found a company who would sell them shirts with their logo for \$6.25.
 - a. Make a table and a graph that show number of shirts and cost.

Table

# of shirts	Cost (\$)

Graph
Cost of Shirts

- b. Write an equation that shows how to determine the T-shirt cost for any number of customers.
 - c. How many shirts did the company buy if their total cost is \$100? Explain how you found your answer.
2. Write a "story" that describes this graph.



Unit Test (continued) - Review

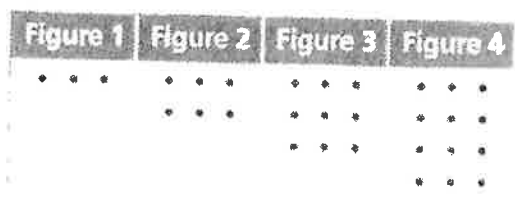
3. The number of hours of daylight in a day changes throughout the year. We say that the days are "shorter" in winter and "longer" in summer. The following table shows the number of typical daylight hours in Chicago, Illinois. Each month of the year is represented by a number (January is month 1, and so on).

Month	Daylight Hours
1 (January)	10.0
2 (February)	10.2
3 (March)	11.7
4	13.1
5	14.3
6	15.0
7	14.5
8	13.8
9	12.5
10	11.0
11	10.5
12	10.0

Describe the pattern relating the month and the number of daylight hours.

Unit Test (continued) - Review

4. The drawings below show a series of dot figures.



a. Make a table showing the number of dots in Figures 1–10.

Figure										
Dots										

b. Write an equation showing the number of dots d needed to make any figure n .

c. How many dots would be in Figure 20? Show your work.

d. Which figure requires 42 dots? Explain how you got your answer.

5. Kadie and her two brothers are going to a dance. They know the following costs:

- \$2.00 Dance admission
- \$1.50 Photo with friends
- \$1.75 Pizza slice and drink

To figure the total price for the dance, each wrote an expression.

Kadie: $3(2 + 1.5 + 1.75)$ Sam: $3(2) + 3(1.5) + 3(1.75)$ Harold: $3(2) - 3(1.5) - 3(1.75)$

a. Which expression could you use to find the total price for the three students? Explain.

b. Their mother gives them a \$20 bill. Is it enough to pay for all three?

Unit Test (continued) - Review

6. Dee owns a game system. He checked some stores to find the least expensive place to buy games.
- Taylor's Department Store sells games for \$15.50 each.
 - Buyer's Warehouse has an initial \$25 membership fee. Then, each game is \$12.
- a. Write a function relating the cost c for any number of games g at each store.

Taylor's Department Store:

Buyer's Warehouse:

- b. How many games would Dee have to purchase for Buyer's Warehouse to be the best place to buy games? Show your work.
- c. How many games would Dee have to purchase for Taylor's Department Store to be the best place to buy games? Show your work.
- d. How many games can Dee buy from Taylor's Department Store if he wants to keep his total cost to no more than \$155? Use a number line to represent your answer.

