

Assignment Record Sheet

Math Core C

Full Name: _____

Week: 3/9 - 3/13

Unit Name: Moving Straight Ahead

Periods: 3 & 5

Date Assigned	Focus Question??	Homework (IP=in packet)	Meets Expectation (15 points)	Approaching Expectations (5 points)	Below Expectation (0 points)
Monday Mar. 9	<i>Which one is the dependent and which one is the independent variable when comparing time and distance walked?</i>	WU: Vocabulary #1-3 (IP) CW: Prob. 1.1 B p. 9 HW: ACE #4 (IP)	WU: CW: HW:		
Tuesday Mar. 10	<i>How can you predict whether a relationship is linear from a table, graph, or equation that represents the relationship?</i>	WU: Vocabulary #4-6 (IP) CW: Prob. 1.2 A (IP); B p. 10 HW: ACE #12 (IP)	WU: CW: HW:		
Wed. Mar. 11	<i>What is the pattern of change in a linear relationship?</i>	WU: Vocabulary #7-9 (IP) CW: Prob. 1.3 B-C p. 13 HW: ACE #11 p.19	WU: CW: HW:		
Thursday Mar. 12	<i>How can you determine whether a linear relationship is increasing or decreasing?</i>	WU: Vocabulary #10-12 (IP) CW: Prob. 1.4 A-B p.14 HW: ACE #13 p. 20	WU: CW: HW:		
Friday Mar. 13	<i>How can you determine whether a linear relationship is increasing or decreasing?</i>	WU: None CW: Math Review HW: None Turn in your packet	WU: CW: HW:		

Total Homework Score for the Week: _____/75

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Daily Materials Score _____/25

w/u

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Moving Straight Ahead

Complete the vocabulary chart by filling in the missing information.

Term	Definition	Example
linear relationship ①	A relationship in which there is a constant rate between two variables. Can be represented by a straight-line graph and by an equation in the form $y = mx + b$ where:	$m = \text{slope}$ $b = \text{y-intercept}$
dependent variable ②	1 of 2 variables in a relationship. Its value depends upon or is determined by the other variable, the independent variable.	* The distance you travel on a car trip (dependent variable) depends on how long you drive (independent variable).
independent variable ③	1 of 2 variables in a relationship. Its value determines the value of the other variable - the dependent variable.	* If you organize a bike trip, the number of people who register to go (independent var.) determines the cost for renting bikes (dependent var.)
coefficient ④	The numerical factor in any term of an expression.	
solution of an equation ⑤	The value or values of the variables that make an equation true.	

w/u

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Moving Straight Ahead (continued)

Term	Definition	Example
y-intercept (6)	The point where the graph crosses the y-axis. In a linear equation of $y=mx+b$ the y-intercept is the b.	
x-intercept (7)	The point where a graph crosses the x-axis.	
equivalent expressions (8)	Expressions that represent the same quantity.	$\left. \begin{array}{l} 2+5 \\ 3+4 \\ 7 \end{array} \right\} \text{equivalent expressions}$
properties of equality (9)	For all real numbers a, b, c : Addition: If $a=b$, then $a+c=b+c$ Subtraction: If $a=b$, then $a-c=b-c$ Multiplication: If $a=b$, then $a \cdot c=b \cdot c$	Division: If $a=b$, and $c \neq 0$, then $\frac{a}{c} = \frac{b}{c}$
inequality (10)	A statement that 2 quantities are not equal. The symbols: $> < \geq \leq$ all express inequalities.	
point of intersection (11)	The point where two lines intersect. If the lines are represented on a coordinate grid, the point's coordinate can be read from the graph.	
slope (12)	The number that expresses the steepness of a line. This is the ratio of the vertical change to the horizontal change between any 2 points on the line. Rise over Run. Slope of a horizontal line is 0.	

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Labsheet 1ACE Exercise 4

4. Mike makes the following table of the distances he travels during the first day of the trip.
- a. Suppose Mike continues riding at this rate. Write an **equation** for the distance (D) Mike travels after t hours.

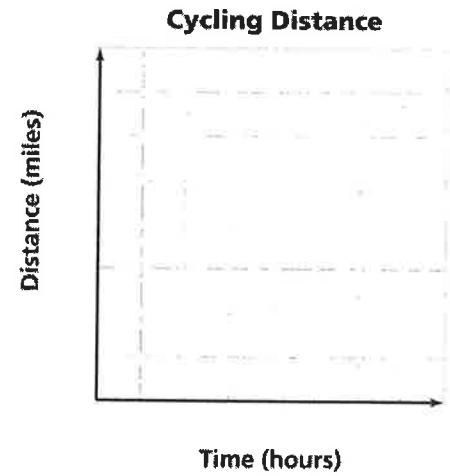
$D =$

Cycling Distance

Time (hours)	Distance (miles)
0	0
1	6.5
2	13
3	19.5
4	26
5	32.5
6	39

- b. Sketch a **graph** of the equation.

How did you choose the range of values for the time axis?



How did you choose the range of values for the distance axis?

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Labsheet 1ACE

Exercise 4

- c. How can you find the distances Mike travels in 7 hours ($t = 7$) and in $9\frac{1}{2}$ hours ($t = 9.5$), using the table?

Hint: Extend the table provided and then tell how you would use it to find the distance Mike traveled in an hour.

Using the graph?

Hint: See part (b).

Using the equation?

Hint: See part (a).

- d. How can you find the **numbers of hours** it takes Mike to travel 100 miles ($D = 100$) and 237 miles ($D = 237$), using the table?

Using the graph?

Using the equation?

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Labsheet 1ACE

Exercise 4

- e. For parts (c) and (d), what are the advantages and disadvantages of using each model—a table, a graph, and an equation—to find the answers?

Form	Advantages	Disadvantages
Table		
Graph		
Equation		

- f. Compare the rate at which Mike rides with the rates at which Jose, Mario, and Melanie ride.

Mike's rate of riding:

Hint: How do you find the rate?
 What is Mike's rate of riding?
 What is Jose's rate? Mario's?
 Melanie's?

Jose's rate of riding:

Mario's rate of riding:

Melanie's rate of riding:

Who rides the fastest?

How can you determine this from the tables?

From the graphs?

From the equations?

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Labsheet 1.2

Walking Rates

A. Here are the walking rates that Gilberto, Alana, and Leanne found in their experiment.

Name	Walking Rate
Alana	1 meter per second
Gilberto	2 meters per second
Leanne	2.5 meters per second

1. Walking Rates

Time (seconds)	Distance (meters)		
	Alana	Gilberto	Leanne
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Name

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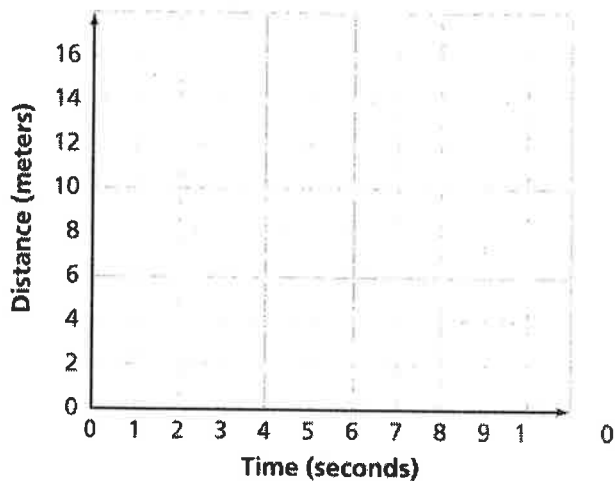
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Labsheet 1.2

Walking Rates

2.

Walking Rates



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Labsheet 1ACE

Exercise 12

12. Jamal's parents give him money to spend at camp. Jamal spends the same amount of money on snacks each day. The table shows the amount of money, in dollars, he has left at the end of each day.

Snack Money

Days	Money Left
0	\$20
1	\$18
2	\$16
3	\$14
4	\$12
5	\$10
6	\$8

a. How much money does Jamal have at the start of camp? Explain.

b. How much money does he spend each day? Explain.

Hint: How can you use a table to find the unit rate of dollars spent per day?

c. Is the relationship between the number of days and the amount of money left in Jamal's wallet a linear relationship? Explain.

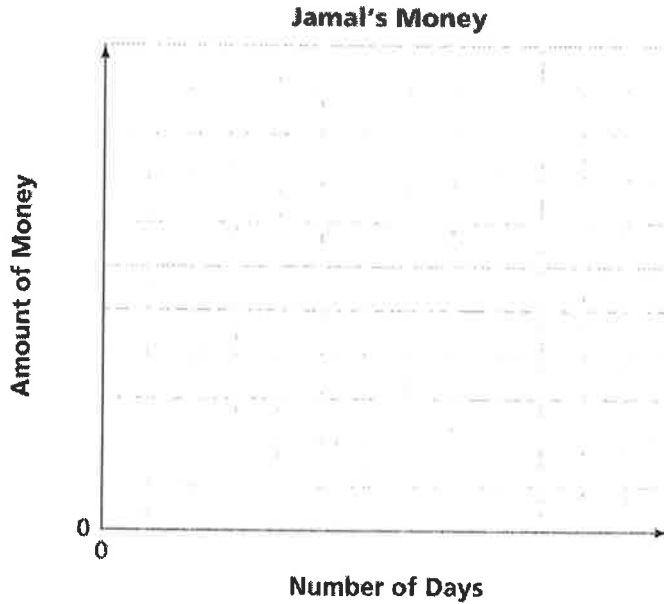
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Labsheet 1ACE

Exercise 12

- d. Assume that Jamal's spending pattern continues. Check your answer to part (c) by sketching a graph of this relationship.



- e. Write an equation that represents this relationship.

$M =$

Explain what information the variables represent.

Explain what information the numbers represent.