

Welcome Back MYP Math 9!

Self-assess:

	Assignment Effort Grade (Circle One)	Comments (What was interesting or challenging?)
Monday Date: <u>10-2</u> Topic: <u>Systems Quiz</u>	0 1 2	I began reviewing my notes for the upcoming unit test.
Tuesday Date: <u>10-3</u> Topic: <u>Systems of Equations Review</u>	0 1 2	I learned from my mistakes and practiced problems that were hard for me!
Wednesday Date: <u>10-4</u> Topic: <u>19D Problem Solving</u>	0 1 2	
Thursday Date: <u>10-5</u> Topic: <u>Real-life Quiz 1 Review</u>	0 1 2	
Friday Date: _____ Topic: _____	0 1 2	

Class Plan:

1. 4 In a Row!
2. Review for Unit Test
3. Joke break :)

Unit 1 Test
Friday, October 6th

**SOUTHWEST HIGH SCHOOL
ADVISORY
BELL SCHEDULE
2017-2018**

1st Hour	8:05 – 8:48
2nd Hour	8:53 – 9:36
<i>Advisory</i>	9:41 – 10:23
3rd Hour	10:28 – 11:11
4th Hour	11:16 – 11:59
5th Hour	12:04 – 1:24
Lunch A	12:04 – 12:34
Class A	12:39 – 1:24
Class B	12:04 – 12:49
Lunch B	12:54 – 1:24
6th Hour	1:29 – 2:12
7th Hour	2:17 – 3:00

ADVISORY DATES

8/30/17	11/30/17	1/18/18	4/19/18
9/7/17	12/4/17	2/1/18	4/26/18
9/14/17	12/21/17	2/15/18	5/3/18
9/28/17		2/22/18	5/17/18
10/5/17		3/1/18	5/24/18
10/26/17		3/15/18	5/31/18
11/16/17		3/22/18	

Directions: Goal – get 4 in a row, column, or diagonal!

- 1) Write numbers 1 – 16, randomly, on game board.
- 2) Give yourself a **FREE SPACE**.
- 3) When a number is called, cross it off on board. **Then answer the question/problem.**
- 4) All answers/solutions of the problems must be shown of the 4-in a row to win!

4 In a Row!

Directions: Goal - get 4 in a row, column, or diagonal!

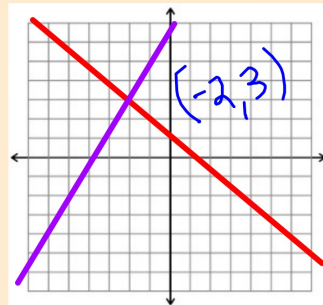
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7	3	14	15
1	13	2	10
11	6	5	9
12	4	16	8 Free

4 In a Row!

- 1) What is a solution to a system of equations on a graph?

An intersection
of 2 lines
 $(-2, 3)$
(A point)



4 In a Row!

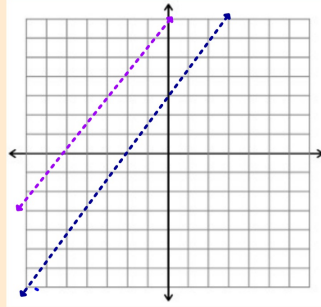
2) What is meant by having no solutions to a system of equations on a graph?

Parallel lines

$$y = \frac{3}{2}x + 7$$

$$y = \frac{3}{2}x + 3$$

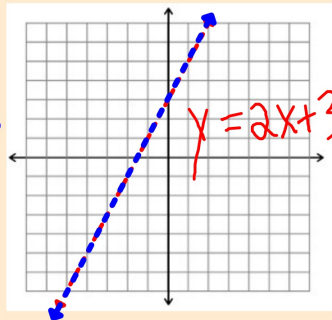
(Same Slopes)



4 In a Row!

3) What is meant by having infinite solutions to a system of equations on a graph?

Same line!!!
All points on the
line are solutions
....lines are
infinite, hence
infinite solutions
on the line.



4 In a Row!

4) Solve for (x, y).

$$\boxed{y = -6}$$
$$y = 8x - 6$$

$$(0, -6)$$

$$\begin{array}{r} -6 = 8x - 6 \\ +6 \quad \quad +6 \end{array}$$

$$\hline \frac{0}{8} = \frac{8x}{8} \quad \boxed{x = 0}$$

4 In a Row!

5) Solve for (x, y).

$$y = 8x - 19$$
$$y = -3x + 14$$

$$\boxed{x = 3}$$

$$y = 8(3) - 19$$

$$y = 24 - 19$$

$$\boxed{y = 5}$$

$$\begin{array}{r} 8x - 19 = -3x + 14 \\ +3x \quad \quad +3x \end{array}$$

$$\hline 11x - 19 = 14$$
$$\quad +19 \quad +19$$

$$\hline 11x = 33$$
$$\frac{11x}{11} = \frac{33}{11}$$

$$(3, 5)$$

4 In a Row!

6) Solve for (x, y).

$$x - y = -7$$

$$-x - 5y = 7$$

Add like terms

$$0 - 6y = 0$$

$$\frac{-6y}{-6} = \frac{0}{-6}$$

$$y = 0$$

$$x - 0 = -7$$

$$x = -7$$

$$(-7, 0)$$

Joke break :)

KNOCK, KNOCK

WHO'S THERE?

A BROKEN PENCIL

A BROKEN PENCIL WHO?

NEVER MIND...
IT'S POINTLESS!

Knock knock!
Who's there?
Tank!
Tank who?
Your welcome!!

Virajicous.co

4 In a Row!

7) Solve for (x, y).

$$\begin{aligned}(-x + 12y = 1)(8) \\ 8x - 2y = -8\end{aligned}$$

$$\begin{aligned}-8x + 96y &= 8 \\ 8x - 2y &= -8 \\ \hline\end{aligned}$$

$$-x + 12(0) = 1$$

$$\frac{94y}{94} = \frac{0}{94}$$

$$-x + 0 = 1$$

$$(-1, 0)$$

$$-x = 1$$

$$y = 0$$

$$x = -1$$

4 In a Row!

8) Ms. Berg's car is driving at a speed of 61 mph. Assume Ms. Berg is on cruise control and interpret the rate of change of her car.

$\frac{61 \text{ miles}}{1 \text{ hr}}$. For every hour
Ms. Berg drives,
she travels 61 miles.

4 In a Row!

9) Carmen worked for 3 hours and made \$29.25. He worked another shift for 7 hours and earned \$68.25. What is Carmen's hourly wage?

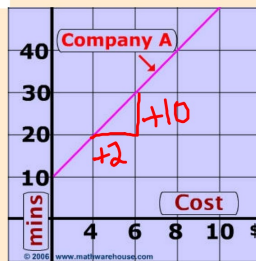
$$\begin{aligned} & \text{(hours, \$)} \\ & (3, 29.25) \\ & (7, 68.25) \\ & m = \frac{68.25 - 29.25}{7 - 3} \\ & m = \frac{39.0}{4} \\ & m = \overset{\$}{9.75}/\text{hour} \end{aligned}$$

4 In a Row!

10) Find the rate of change of company A.

$$\frac{10}{2} = 5$$

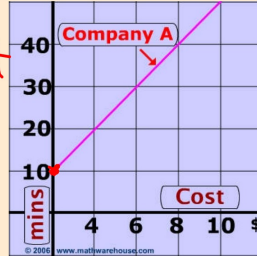
Each minute cost
Company A \$5.00



4 In a Row!

11) If the company has no cost, how much time is spent?

10\$ Y-intercept
(0,10)

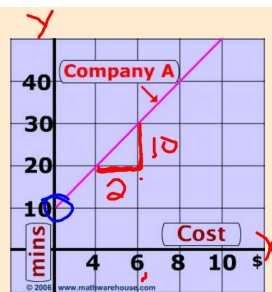


4 In a Row!

12) Write the equation Company A's line.

$$y = mx + b \quad b = 10$$
$$m = \frac{10}{2} = 5$$

$$y = 5x + 10$$



2 min

$$\text{OR} \Rightarrow y = 2.5x + 10$$

4 In a Row!

13) The equation $y=7.8x + 325$ represents the amount of calories burned (y) for every minute (x) spent swimming. Interpret the **y-intercept**.

325 : the calories burned after 0 minutes have passed.

4 In a Row!

14) The equation $y=7.8x + 325$ represents the amount of calories burned (y) for every minute (x) spent swimming. Interpret the gradient (**slope**).

7.8 calories are burned every 1 minute.

4 In a Row!

15) The equation $y = 7.8x + 325$ represents the amount of calories burned (y) for every minute (x) spent swimming. After 30 minutes of swimming, how many calories have been burned?

$$y = 7.8x + 325$$

$$y = 7.8(30) + 325$$

$$y = 234 + 325$$

$$y = 559 \text{ calories}$$

30 minutes
Swimming

4 In a Row!

16) Find the gradient between $A(2, -4)$ $B(-3, 6)$.

$$m = \frac{6 - (-4)}{-3 - 2} = \frac{10}{-5} = -2$$