April 27th

	91.5	
NAME		
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PA.D.1.1 and 1.2

There are 5 students in the group. The median score made by the group on the last test was 85. The scores for 4 students are shown. What would have been the score for the 5th student? 85 80 95 80

33,26, 29, 30

) If the number 30 is added how is the mean affected?

Your first 6 test grades mean score was an 80%. Your next quiz grade was 100%. What is your mean score of the 7 quizzes?

	Simber
Monday	75
Tuesday	80
Wednesday	82
Thursday	78
Friday	?

(9) What is the next number to have a mean of 80?

12, 15, 18, 14, 45, 15, 16, 13

- (5) Given the following data which measure of central tendency would it be best to use to describe the data?
 - a. Mode
 - b. Range
 - c. Mean
 - d. Median

April 27th

N	AME	K	as	
PA.D.1.1	and	1.2		

PA.D.1.1 and 1.2
There are 5 students in the group. The median score made by the group on the last test was [85]. The scores for 4 students are shown. What would have been the score for the 5 th student? [85] 80 95 80 80,80,85,95 30,85,95 31,26,29,30 = 118 - 4 = 29,5
33t26t29t30 = 118 - 4 = 29.5
(2) If the number 30 is added how is the mean affected? [It will increase] When adding a value to the data set? o if the value is equal to the mean - the mean stays the same o if the value is greater than the mean - the mean increases o if the value is less than the mean - the mean decreases
3 Your first 6 test grades mean score was an 80%. Your next quiz grade was 100%. What is
your mean score of the 7 quizzes? $80 \times 6 = 480$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

12, 15, 18, 14, 45, 15, 16, 13

Given the following data which measure of central tendency would it be best to use to describe the data? The Median because 45 is an

outlier.

- a. Mode
- b. Range

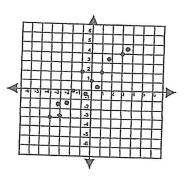
Mean

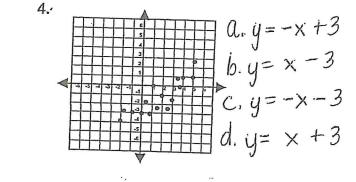
April 28th

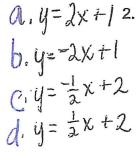
NAME____

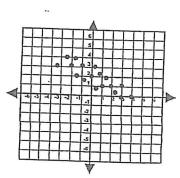
PA.D.1.3

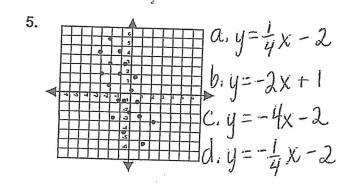
the line of best fit for the following scatter plots.

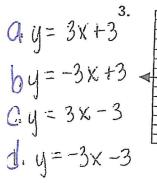


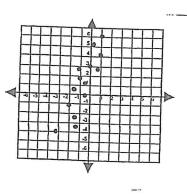


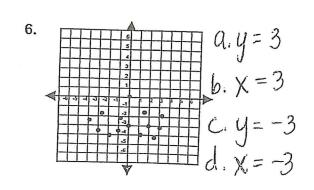










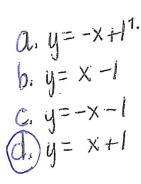


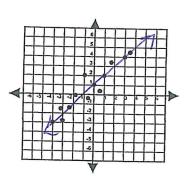
Line of best fit is a Straight line the data on a scatterplot.

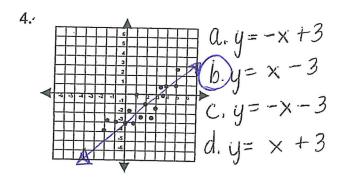
April 28th

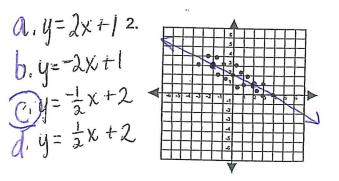
PA.D.1.3

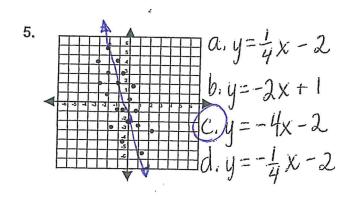
Find the Slope and y-intercept to write choose the line of best fit for the following scatter plots. The liquation,

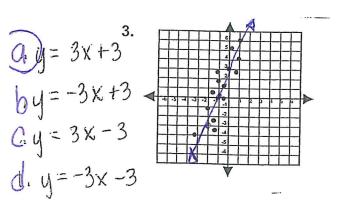


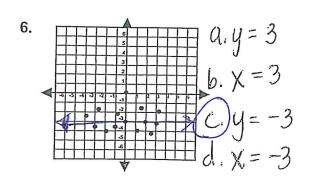












April 29th

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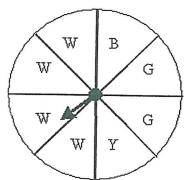
PA.D.2.1, 2.2 and 2.3

A bag contains red, green, and blue marbles. A marble is drawn randomly from the bag, its color is recorded, and then it is put back in the bag. This is repeated a total of 30 times. The results are shown in the table.

Marble Color	Frequency
Red	3
Green	6
Blue	21

What is the experimental probability of drawing a red marble?

- [A] $\frac{1}{10}$
- [B] $\frac{1}{9}$
- [C] $\frac{1}{5}$
- [D] $\frac{7}{10}$
- The spinner below is spun 120 times. How many times will the spinner likely land on the letter B?



- A bag contains 25 marbles. There are 7 blue, 6 green, 6 red, 3 yellow, and 3 black marbles. Without looking, Gail reaches into the bag and draws one marble. What is the probability she draws a red marble?
 - [A] $\frac{19}{25}$
- [B] $\frac{1}{6}$
- [C] $\frac{6}{25}$
- [D] $\frac{6}{19}$
- (4) A single die is tossed. Find the probability of getting a 2.
 - [A] $\frac{1}{6}$
- [B] 1
- [C] $\frac{1}{2}$
- [D] $\frac{5}{6}$

A. $\frac{1}{6}$ B. $\frac{1}{8}$ C. $\frac{1}{9}$ D. $\frac{1}{4}$	A mayor wanted to see if the people in his town thought he was doing a good job. Which choice best represents a sample? A. 1,000 unemployed voters. B. The mayor's family. C. The residents of the town. D. 242 voters.	people in the Unnéw logo. Which choice be population? A. A selection B. Every perso C. A selection different sta	of logo artists. n in the United States. of shoppers from
bowl.	g contains 3 pennies, 3 nickels, and 5 dime Then a second coin is drawn and placed in s a penny and the second coin is a dime?		
[A]	$\frac{3}{22}$ [B] $\frac{3}{11}$	$[D] \frac{8}{11}$ $[D] \frac{15}{12}$	<u>5</u> 1

A card is drawn, and without replacing it, a second card is drawn. What is the probability that

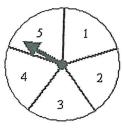
[C] $\frac{2}{17}$

[D] $\frac{1}{3}$

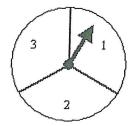
the first card has a P written on it and the second card has a T written on it?

[A] $\frac{1}{72}$

Each game wheel is divided into equal sections. The spinners on the game wheels are each spun once and the number each spinner lands on is recorded.



Spinner 1



Spinner 2

What is the probability that both numbers are even numbers?

[A]
$$\frac{2}{15}$$

[B]
$$\frac{11}{15}$$

[C]
$$\frac{3}{15}$$
 [D] $\frac{3}{8}$

[D]
$$\frac{3}{8}$$



There are 14 blue marbles, 22 red marbles, 22 yellow marbles, and 17 green marbles in a bag. A marble is drawn randomly. What is the probability that the marble is red or yellow?

The table shows the drink preferences of 50 shoppers at the mall. DRINK SURVEY

TOTOTTIE DOTOTTE		
Drink	Number of Shoppers	
A	7	
В	8	
C	₋ 11	
D	10	
E	14	

What is the probability that 1 shopper, selected at random from the 50 surveyed, preferred either Drink D or Drink E?

[A]
$$\frac{19}{50}$$

[B]
$$\frac{7}{125}$$

[C]
$$\frac{12}{25}$$

[D]
$$\frac{29}{50}$$

April 29th

NAME KEY

PA.D.2.1, 2.2 and 2.3

A bag contains red, green, and blue marbles. A marble is drawn randomly from the bag, its color is recorded, and then it is put back in the bag. This is repeated a total of 30 times. The results are shown in the table.

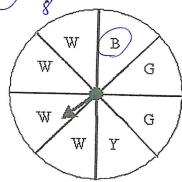
Marble Color .	Frequency
Red	(3)
Green	6
Blue	21

favorable outcomes
to tal possible outcomes

What is the experimental probability of drawing a red marble? 30

- (A) $\frac{1}{10}$
- [B] $\frac{1}{9}$
- [C] $\frac{1}{5}$
- [D] $\frac{7}{10}$

The spinner below is spun 120 times. How many times will the spinner likely land on the letter $\frac{1}{8} = \frac{1}{8}$ $\frac{1}{8} = \frac{1}{120}$

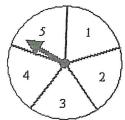


- 15 times
- A bag contains 25 marbles. There are 7 blue, 6 green 6 red, 3 yellow, and 3 black marbles. Without looking, Gail reaches into the bag and draws one marble. What is the probability she draws a red marble?
 - [A] $\frac{19}{25}$
- [B] $\frac{1}{6}$
- $(C) \frac{6}{25}$
- [D] $\frac{6}{19}$
- A single die is tossed. Find the probability of getting a 2.
 - $[A] \frac{1}{6}$
- [B]
- [C] $\frac{1}{2}$
- [D] $\frac{5}{6}$

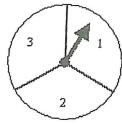
A coin is tossed and a die is rolled. What is the probability that the coin shows tails and the die shows an even number? A. $\frac{1}{6}$ Independent events — Find the probability of each and multiply (compand events).
B. $\frac{1}{8}$ $P(Tail) = \frac{1}{2}$ $\frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$ $C. \frac{1}{9}$ $P(even \#) = \frac{1}{a}$
D. $\frac{1}{4}$ A mayor wanted to see if the people in his town thought he was doing a good job. Which choice best represents a sample? A. 1,000 unemployed voters. A beverage company wanted to see if people in the United States liked their néw logo. Which choice best represents a population? A. A selection of logo artists.
B. The mayor's family. C. The residents of the town. C. The residents of the town. Sump D. 3,800 children age 5 - 15 A bag contains 3 pennies, 3 nickels, and 5 dimes. A coin is drawn at random and placed in a bowl. Then a second coin is drawn and placed in the bowl. What is the probability that the first representations of the United States. D. 3,800 children age 5 - 15
coin is a penny and the second coin is a dime? (A) $\frac{3}{22}$ [B] $\frac{3}{11}$ [C] $\frac{8}{11}$ [D] $\frac{15}{121}$ $\frac{3}{11}$ $\frac{5}{10}$
Cards spelling out DEPENDENT are shuffled and placed face-down on a table.
A card is drawn, and without replacing it, a second card is drawn. What is the probability that the first card has a P written on it and the second card has a T written on it?
(A) $\frac{1}{72}$ (B) $\frac{1}{36}$ (C) $\frac{2}{17}$ (D) $\frac{1}{3}$
$\frac{1}{9} \circ \frac{1}{8}$



Each game wheel is divided into equal sections. The spinners on the game wheels are each spun once and the number each spinner lands on is recorded.



Spinner 1



Spinner 2



What is the probability that both numbers are even numbers?

$$(A) \frac{2}{15}$$

[B]
$$\frac{11}{15}$$

[C]
$$\frac{3}{15}$$
 (D) $\frac{3}{8}$

$$[D] \frac{3}{8}$$



There are 14 blue marbles, 22 red marbles, 22 yellow marbles, and 17 green marbles in a bag. A marble is drawn randomly. What is the probability that the marble is red or yellow? it could be either so ...

A.
$$\frac{12}{25}$$

B.
$$\frac{14}{75}$$

$$\frac{\text{C.}}{75}$$

D.
$$\frac{22}{75}$$

	1 Co to CC p
22+22=	44 red orgellow
20.00	- La Lacarbles

75 total marbles

The table shows the drink preferences of 50 shoppers at the mall.

DKTAK 20KAFA		
Drink	Number of	
	Shoppers	
A	7	
В	8	
C	_, 11	
D	10	
E	14	

$$\frac{10+14}{50} = \frac{24}{50} = \frac{12}{25}$$

What is the probability that 1 shopper, selected at random from the 50 surveyed, preferred either Drink D or Drink E?

[A]
$$\frac{19}{50}$$

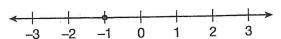
[B]
$$\frac{7}{125}$$

$$\boxed{[C]} \frac{12}{25}$$

[D]
$$\frac{29}{50}$$

April 30th + May 12 Name _____ Algebraic Russoning + Algebra Review

1. Which equation has its solution graphed on this number line?



$$A -4n + 8 = -12$$

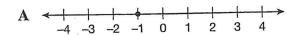
$$\mathbf{B} -4n - 8 = 12$$

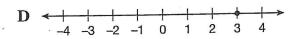
$$\mathbf{C} 4n - 8 = -12$$

D
$$4n - 8 = 12$$

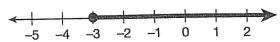
2. Which number line shows the solution to this equation?

$$4p-5=2p+1$$





3. Which inequality represents the solution shown on this number line?



A
$$3k - 27 \ge -18$$

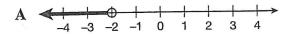
B
$$3k - 27 \ge 18$$

C
$$3k + 27 \ge -18$$

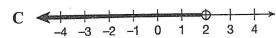
D
$$3k + 27 \ge 18$$

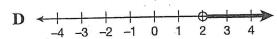
4. Which graph shows the solution to this inequality?







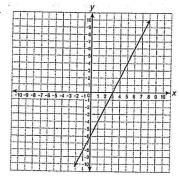




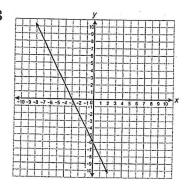
5. Which is the graph of this linear equation?

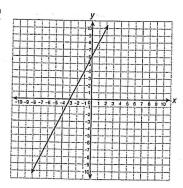
$$-2x + y = 6$$

A

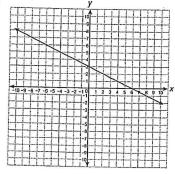


B





 \mathbf{D}



6. What is the slope of the line that passes through points with coordinates (2, 1) and (7, 4)?

$$A -\frac{5}{3}$$

B
$$-\frac{3}{5}$$

$$C = \frac{3}{5}$$

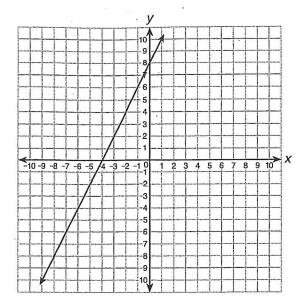
$$\mathbf{D} \quad \frac{5}{3}$$

7. What is the slope of the line whose equation is y = -2x + 9?

$$\mathbf{A} - 9$$

C
$$-\frac{2}{9}$$

8. Which linear equation is graphed below?



A
$$y = 2x + 8$$

B
$$y = -4x + 8$$

C
$$y = 4x + 8$$

D
$$y = 8x - 4$$

9. A line has a slope of 5 and a y-intercept of 7. What is the equation of the line?

A
$$y = 7x + 5$$

B
$$y = -7x + 5$$

C
$$y = 5x + 7$$

D
$$y = -5x + 7$$

10. Which equation represents the data shown in this table?

X	У
1	2
2	5
3	8
4	11

$$\mathbf{A} \quad y = x + 1$$

B
$$y = 3x - 1$$

$$\mathbb{C} \ \ y = 4x - 2$$

D
$$y = 5x - 3$$

11. What is the y-intercept of the line whose equation is y = 4x - 3?

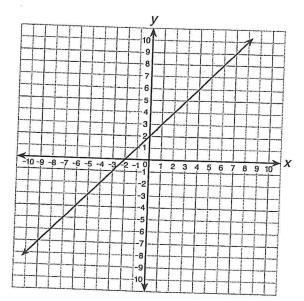
$$\mathbf{A}$$
 -3

$$B -\frac{4}{3}$$

$$C^{\frac{3}{4}}$$

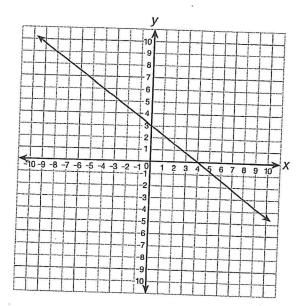
- 12. The slope of a line changes from -5 to $\frac{1}{5}$. How does the new line compare with the original line?
 - A It is steeper and rises from left to right instead of falling from left to right.
 - B It is steeper and falls from left to right instead of rising from left to right.
 - C It is less steep and rises from left to right instead of falling from left to right.
 - **D** It is less steep and falls from left to right instead of rising from left to right.

13. Which verbal description represents the data in this graph?



- A y equals the sum of x and 2.
- **B** y equals the sum of x and -2.
- C y equals the product of x and 2.
- D y equals the product of x and -2.

14. What is the slope of the line graphed below?



- **A** $-\frac{4}{3}$
- $\mathbf{C} = \frac{3}{4}$
- **B** $-\frac{3}{4}$
- $\mathbf{D} = \frac{4}{3}$
- 15. This table of values shows how hourly wages at a factory are related to years of experience.

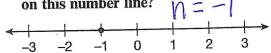
Years of Experience	Hourly Wage
1	\$9.00
2	\$9.50
3	\$10.00
4	\$10.50
5	\$11.00
6	\$11.50

If the data were graphed with x-values representing years of experience and y-values representing hourly wages, what would be the slope of the line?

- $\mathbf{A} = \frac{1}{9}$
- $\mathbb{C}^{\frac{2}{1}}$
- $\mathbf{B} = \frac{1}{2}$
- $\mathbf{D} \ \frac{9}{1}$

April 30th & May 1st Name Key Algebraic Russing + Algebra Review

1. Which equation has its solution graphed on this number line?



A
$$-4n + 8 = -12$$
 plug in value
B $-4n - 8 = 12$ of n to each

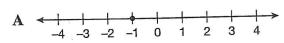
$$B -4n - 8 = 12$$
 of n to each

$$(C)4n-8=-12$$
 equation to see

$$C$$
 $4n-8=-12$ equation to see
 D $4n-8=12$ which makes a
true Statement.

2. Which number line shows the solution to this equation?

$$4p-5=2p+1$$



$$4p-5=2p+1$$

$$\frac{2p = 6}{2}$$

3. Which inequality represents the solution shown on this number line?



A
$$3k - 27 \ge -18$$

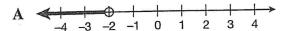
-5 -4 -3 -2 -1 0 1 2
A
$$3k - 27 \ge -18$$
 Solve each inequality
B $3k - 27 \ge 18$ to find the Solution.

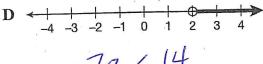
C
$$3k + 27 \ge -18$$

$$\bigcirc 3k + 27 \ge 18$$

4. Which graph shows the solution to this inequality?

$$-7a < 14$$





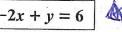
$$a > -2$$

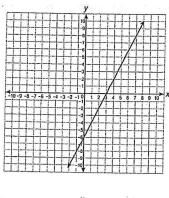
Remember to veverse the inequality.

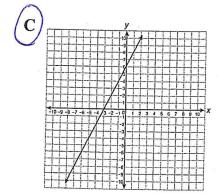
Write the equation in slope-intercept

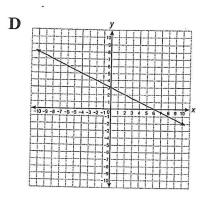
5. Which is the graph of this linear 1000 equation?











6. What is the slope of the line that passes through points with coordinates (2, 1)

$$A -\frac{5}{3} \frac{4}{3}$$

$$C^{\frac{3}{5}}$$

$$\mathbf{D} \quad \frac{5}{3}$$

7. What is the slope of the line whose equation is y = -2x + 9?

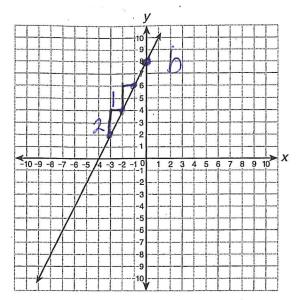
$$\begin{array}{c} A & -9 \\ \hline B & -2 \end{array}$$

$$C -\frac{2}{9}$$

y= mx+b y intercept Slope

y=mx+b

8. Which linear equation is graphed below?



(A)
$$y = 2x + 8$$

(B) $y = -4x + 8$
(C) $y = 4x + 8$
(D) $= 8$

B
$$y = -4x + 3$$

$$\mathbf{D} \quad y = 8x - 4$$

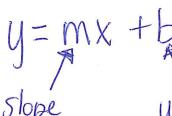
9. A line has a slope of 5 and a y-intercept of 7. What is the equation of the line?

$$\mathbf{A} \quad y = 7x + 5$$

B
$$v = -7x + 5$$

$$\mathbf{C}\mathbf{y} = 5x + 7$$

D
$$y = -5x + 7$$



10. Which equation represents the data shown in this table?

		0	(-)	AX
		X	y	
		1	2	1
. 1	9	. 2	5	ノナク
+1	9	3	8	2
		4	11)

What is the y-intercept of the line whose equation is y = 4x - 3?

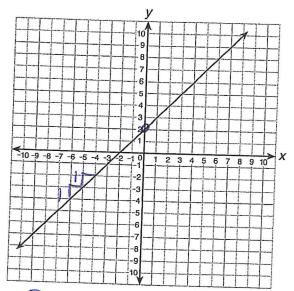
$$(\mathbf{A})$$
 -3

$$\mathbf{B} - \frac{4}{2}$$

$$\mathbf{C} = \frac{3}{4}$$

- The slope of a line changes from -5to $\frac{1}{5}$. How does the new line compare with the original line?
 - A It is steeper and rises from left to right instead of falling from left to right.
 - **B** It is steeper and falls from left to right instead of rising from left to right.
 - C) It is less steep and rises from left to right instead of falling from left to right.
 - D It is less steep and falls from left to right instead of rising from left to right.

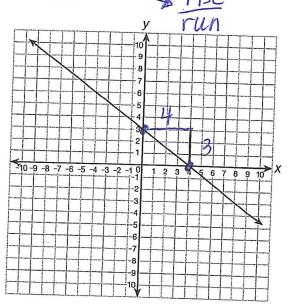
13. Which verbal description represents the data in this graph?



- A y equals the sum of x and 2.
- **B** y equals the sum of x and -2.
- C y equals the product of x and 2.
- D y equals the product of x and -2.

$$y = x + 2$$

14. What is the slope of the line graphed below?



- $A -\frac{4}{3}$
- $\mathbf{C} = \frac{3}{4}$
- $\bigcirc B -\frac{3}{4}$
- $D = \frac{4}{3}$
- 15. This table of values shows how hourly wages at a factory are related to years of experience.

	Years of Experience	Hourly Wage	
. (1	\$9.00	
	2	\$9.50	2+.50
+15	. 3	\$10.00)
' ' (4	\$10.50)
(, 5	\$11.00	
	6	\$11.50	

If the data were graphed with x-values representing years of experience and y-values representing hourly wages, what would be the slope of the line?

$$\mathbf{A} = \frac{1}{9}$$

$$C^{\frac{2}{1}}$$

$$\bigcirc$$
 B $\frac{1}{2}$

$$\mathbf{D} = \frac{9}{1}$$