

Name: _____
 Date: Monday, March 16, 2020

Parent Signature: _____

Spring Break Packet

√++ (100%)	Produces Meticulous Work
√+ (95%)	<input type="checkbox"/> Thinking is shown for every problem
√ (85%)	<input type="checkbox"/> Work is organized and neat for every problem
√- (75%)	<input type="checkbox"/> Percent and proportion problems are written with words first
√-- (65%)	<input type="checkbox"/> ROLL is shown for all word problems
	○ Read Carefully, Operations Annotated, Label operations, Label answer
	<input type="checkbox"/> Meticulously bubbles on Gradecam Answer Sheet



Interpreting Integers and Rational Numbers				Meaning of Score
4	3	2	1	4: Student consistently exceeds the expected understanding of the content area/skill
-0 = 100%	-3 = 88%		-8 = 68%	3: Student consistently demonstrates the expected understanding of the content area/skill. Student functions with minimal teacher assistance and support
-1 = 96%	-4 = 84%	-6 = 76%	-9 = 64%	2: Student demonstrates partial understanding of the content area/skill. Student requires frequent teacher assistance and support
-2 = 92%	-5 = 80%	-7 = 72%	-10 = 60%	1: Student demonstrates limited understanding of the content area/skill. Student requires intensive teacher assistance, direction and support.
			-11+ = 56%	

My Grade:	Average of Work	
	Habits & Accuracy:	

***** Due Date: Tuesday, April 7, 2020 *** (The day you come back from break)**

GradeCam ID

1. A B C D	10. A B C D	19. A B C D
2. A B C D	11. A B C D	20. A B C D
3. A B C D	12. A B C D	21. A B C D
4. A B C D	13. A B C D	22. A B C D
5. A B C D	14. A B C D	23. A B C D
6. A B C D	15. A B C D	24. A B C D
7. A B C D	16. A B C D	25. A B C D
8. A B C D	17. A B C D	26. A B C D
9. A B C D	18. A B C D	27. A B C D

Form Identifier — DO NOT MARK

28)

29)

30)

First	Last	ID	First	Last	ID	First	Last	ID
Amaury	Alston	1000	Shanija	Everett	1035	Jaylen	Miller-Talley	1070
Aaliyah	Aferyani	1001	Erick	Garcia Rodriguez	1036	Aresia	MonroigBarr ett	1071
Ikraam	Allahpi	1002	Hoslando	Garcia-Fleves	1037	Ricardo	Moreno Hinojoza	1072
Terrill	Alston	1003	Henry	Gracia Martinez	1038	Naomi	Mosley	1073
Alanna	Alston	1004	Krystal	Gray	1039	Uriah	Neal	1074
Tyshawn	Alston	1005	Geovanny	Guillen Morales	1040	Hector	Nonato	1075
Latayah	Anderson	1006	Indya	Hamrick	1041	Ja'Zya	Ormond	1076
LaMani	Anderson	1007	Ni/Zayveon	Hargrove	1042	Josiah	O'Rourke	1077
Jonathan	Andrews	1008	Jonathan	Hargrove	1043	Mia	Outlaw	1078
April	Banda Maldonado	1009	Noble	Harris	1044	Tyren	Owens	1079
Nicole	Baptiste	1010	Mariah	Hawkins-	1045	Kelbi	Peace	1080
Jagson	Baskerville	1011	Manolo	Hernandez-Mendoza	1046	Tamu	Pelion	1081
Diamond	Bowers	1012	Jason	Herrera Moreno	1047	Grayson	Reed	1082
DeAndre'	Brandon	1013	Malachi	Holden	1048	Pauli	Reyes Morosumi	1083
Alan	Brodnax	1014	Elijah	Howard	1049	Jose	Rivera-Campanur	1084
Kayla	Brown	1015	Malachi	Jackson	1050	Alejandro	Rodriguez Pacheco	1085
Eric	Brown	1016	Zq'Tavion	Jackson	1051	Fidel	Rodriguez Romero	1086
Kameron	Bullock	1017	Jaylen	Jefferson	1052	Keysiah	Royster	1087
Jaliqeh	Bullock	1018	Chaelyn	Johnson	1053	Jay	Rudolph	1088
Monica	Burchette	1019	Alyssa	Jones	1054	Angel	Rueda Esparragoza	1089
Jermiah	Carrington	1020	Kelis	Jones	1055	Keionne	Sanford	1090
Ernest	Castillo	1021	A'Sheala	Jones	1056	Moz	Show	1091
Maimouna	Cesay	1022	K'Mya	Kearney	1057	Makayla	Signal	1092
Bri'ana	Cheek	1023	Ns'Kera	Kearney	1058	Christopher	Taylor	1093
Chadajah	Clack	1024	Kimberly	Labra Lopez	1059	CervonTa	Thomas	1094
Darius Me'	Clark	1025	Corey	Lassiter	1060	Roberto	Valdeolivar-Trejo	1095
Elizabeth	Clemente	1026	Terzarvia	Levister	1061	Michelle	Valenzuela Romero	1096
Justin	Creary-Brown	1027	Kalob	Lewis	1062	Ebelin	Vargas Gonzales	1097
Daniel	Cruz	1028	Demetrius	Lima	1063	Jacqueline	Vega Yanez	1098
Jasmin	Cruz	1029	Enzo	Lopez	1064	Keturah	Waddell	1099
Shelby	Daise	1030	Yulisa	Martinez	1065	Justin	Warring	1100
Terrion	Davis	1031	Angelica	Martinez Mogollan	1066	Jayden	Watkins	1101
Aniya	Davis	1032	Uziel	Martinez Sosa	1067	Dominic	Whitaker	1102
Nubia	De Jesus Cruz	1033	Joseph	Mendoza-Mata	1068	Malachi	Williams	1103
Iratze	Duran Ruiz	1034	Joshua	Mendoza-Mata	1069	Faith	Wimbush	1104
			Naheya	Mensah	1070	Kahlil	Scott	1105

1. Christian bought $5\frac{1}{2}$ pounds of chocolate for his store. He wants to separate the chocolate into $\frac{1}{2}$ pound bags. How many $\frac{1}{2}$ pound bags can he make?

Hint!: Split total

- A) 3 B) 5 C) 6 D) 11

2. Ms. Aponte used 3.456 gallons of gas on Monday, 5.897 gallons on Tuesday, and 2.10 gallons on Wednesday. How many gallons of gas did she use?

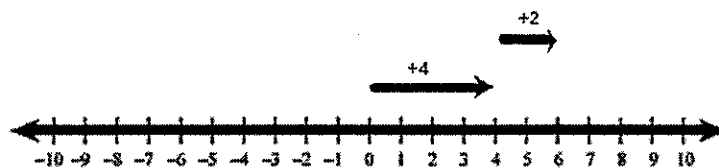
- A) 9.353 gallons B) 9.563 gallons C) 10.343 gallons D) 11.453 gallons

3. Ana ran at a rate of 1 mile per 9.75 minutes. She ran a distance of 4.5 miles at this rate. How long, in minutes, did it take Ana to run this distance?

- A) 43.875 minutes B) 87.750 minutes C) 438.750 minutes D) 877.500 minutes

Set up Proportion!
 $\frac{\text{Miles}}{\text{min}}$

4. Which expression is equivalent to the situation shown in the number line below?



Hint! Subtraction is the same as adding the additive inverse!

- A) $4 - 2$ B) $4 - (-2)$ C) $-4 - 2$ D) $-4 - (-2)$

5. The table shows the speed Christina walked on a treadmill.

If Christina walked for 21 seconds, how many feet did she walk?

- A) 48 feet B) 60 feet C) 72 feet D) 84 feet

Speed

Feet	Seconds
12	3
24	6
36	9
•	•
•	•
? ←	21

Set up Proportion:

$\frac{\text{Feet}}{\text{seconds}}$

6.

Points A , B , C , and D are shown on the number line below.



- A) A
- B) B
- C) C
- D) D

Which point best represents the location of 5.75?

7. There are 2564 students going on a field trip to Raleigh. If the maximum capacity of a school bus is 78 students, what is the least number of buses needed to take the students on the field trip?

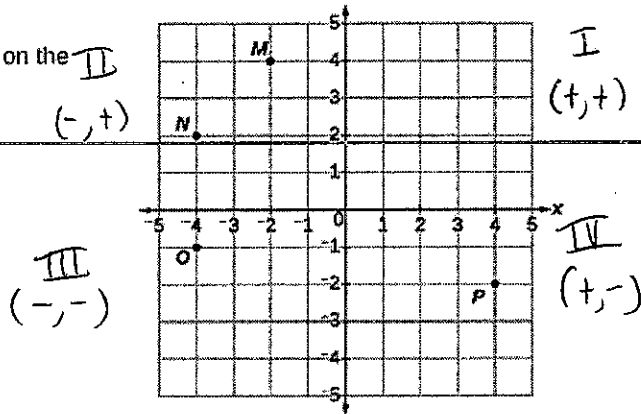
- A) 31
- B) 32
- C) 33
- D) 34

8.

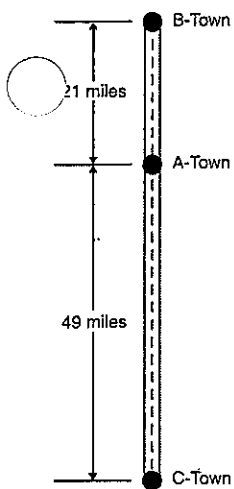
A student correctly graphs the point $(-2, 4)$ on the coordinate plane shown.

Which point does the student graph?

- a. Point M
- b. Point N
- c. Point O
- d. Point P

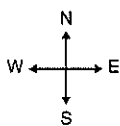


9. On a north-south highway, A-Town is 21 miles south of B-Town and 49 miles north of C-Town.



Which number represents the ratio of the distance from C-Town to B-Town to the distance from B-Town to A-Town?

- A) $\frac{3}{10}$ B) $\frac{3}{7}$ C) $\frac{7}{3}$ D) $\frac{10}{3}$



Distance from C \rightarrow B = _____ \rightarrow Simplify!
 Distance from B \rightarrow A = _____

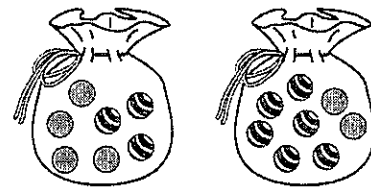
10. Tania has a piece of rope that is 85.5 inches long. She needs to cut the rope into smaller pieces that are each 4.5 inches long. How many pieces will she have? *Split!*

- A) 1.8 pieces B) 1.9 pieces C) 18 pieces D) 19 pieces

11. A city holds an election for Mayor every 4 years and an election for Treasurer every 6 years. It held elections for both Mayor and Treasurer this year. How many years will it be before the elections for Mayor and Treasurer both happen in the same year again?

- A) 10 B) 12 C) 20 D) 24

12. Jaden T. has 2 bags of marbles. In the first bag, $\frac{3}{7}$ of marbles are striped. In the second bag, $\frac{6}{8}$ of the marbles are striped. In the two bags together, what percent of the marbles are striped?



- A) 40% B) 43% C) 60% D) 75%

$$\frac{\text{Part}}{\text{Whole}} = \frac{\%}{100}$$

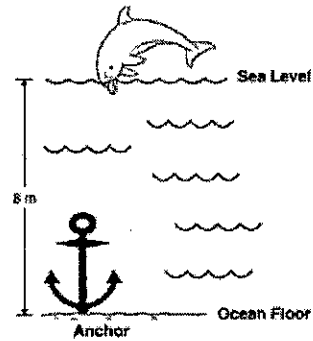
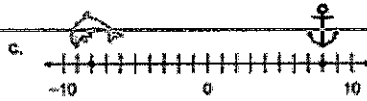
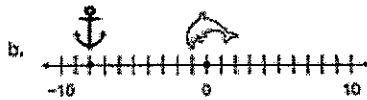
Part = # striped

Whole = total marbles

13. In which situation will Tony end with \$0?
- Tony borrows \$5 from his sister. He then borrows \$5 from his brother to pay back his sister.
 - Tony borrows \$2 each from 3 friends. He earns \$6 and pays each of his friends back.
 - Tony spends \$8 at the movies. He spends another \$8 at the mall.
 - Tony earns \$14 caring for his neighbor's dog over the weekend. He earns another \$14 mowing the neighbor's lawn.

14. A ship anchor was sitting on the ocean floor 8 meters below the sea level while a dolphin was swimming at sea level.

Which number line could be used to represent the positions of the anchor on the ocean floor and the dolphin at sea level?



Note: The figure is not drawn to scale.

15. Which statement describes the situation with the least absolute value? *→ always positive*
- The balance in a bank account is -\$55.
 - The temperature outside is -13°F .
 - A football team gained 6 yards on a play.
 - The elevation of a city is 14 feet below sea level.

16. Sophie buys her mother a bunch of flowers for \$12.95 and her two brothers some candy for \$2.76. If she has \$7.83 left, how much did she start with?

A) \$7.88

B) \$15.71

C) \$23.54

D) \$5.12

Q! Looking for total

17. The table shows how Levon spends his time at the gym. What is the ratio of time lifting weights to the time on the treadmill?

Activity	Time (min)
Treadmill	25
Lifting Weights	35

Hint: order matters!

a. 2 to 3

b. 7 to 5

c. 4 to 5

d. 1 to 7

Q! 18. Which expression is equivalent to $11 \times 11 \times 11 \times 11 + 6 \times 6 \times 6$?

A $4(11 + 11 + 11 + 11) + 3(6 + 6 + 6)$

B $4^{11} + 3^6$

C $11(4) + 6(3)$

D $11^4 + 6^3$

19. Which value of x makes the equation $x - 118 = 354$ true?

a. 472

b. 462

c. 336

d. 236

Use inverse operation on both sides to keep it balanced

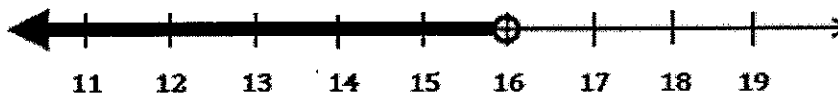
20. The table represents the cost for movie tickets.

Number of Tickets	Total Cost
1	\$8.25
3	\$24.75
4	\$33.00

If the cost per ticket is constant, which statement is true?

- A The equation $8.25c = t$ can be used to calculate the cost, c , for t tickets.
- B The equation $16.50c = t$ can be used to calculate the cost, c , for t tickets.
- C The equation $8.25t = c$ can be used to calculate the cost, c , for t tickets.
- D The equation $16.50t = c$ can be used to calculate the cost, c , for t tickets.

21. The solution set to an inequality is graphed on a number line, as shown.



$>, <$ \geq, \leq

Which statement about the inequality graphed is true?

- A The inequality is $x < 16$, and some possible solutions are 0, 4, and 6.
- B The inequality is $x > 16$, and some possible solutions are 11, 14, and 15.
- C The inequality is $x < 16$, and some possible solutions are 16, 17, and 19.
- D The inequality is $x > 16$, and some possible solutions are 18, 30, and 35.

22. A dieter loses 15% of his or her body weight over 6 months. If the dieter loses a total of 27 pounds, how much did he or she weigh before the 6-month diet?

- A 45 pounds
- B 153 pounds
- C 170 pounds
- D 180 pounds

$$\frac{\text{Part}}{\text{Whole}} = \frac{\%}{100}$$

23. A teacher writes the expression $p + 2p + 3p + 4p$ and asks four students to write equivalent expressions. The table shows the students' responses.

Student	Response
1	$5p$
2	$9p$
3	$10p$
4	$24p$

Do they have the same last name?

Which statement is true?

- A Student 1 is correct because when you continue the pattern in the teacher's expression, you get $5p$.
- B Student 2 is correct because when you add all the like terms in the teacher's expression, you get $9p$.
- C Student 3 is correct because when you combine the like terms in the teacher's expression, you get $10p$.
- D Student 4 is correct because when you multiply the like terms in the teacher's expression, you get $24p$.
24. A dog walker charges a \$30 sign-up fee to cover insurance costs and \$27 per walk. Which expression represents the total cost, in dollars, to hire the dog walker for w walks?

- A $30w + 27$
- B $27w + 30$
- C $57 + w$
- D $57w$

constant:
rate:

25. An employee receives a 17% employee discount on any items purchased at Gifts Galore. If the original price of an item at Gifts Galore is \$300, how much money does the employee save using the employee discount?

- A \$282
- B \$249
- C \$51
- D \$18

$$\frac{\text{Part}}{\text{Whole}} = \frac{\%}{100}$$

26. A travel agent buys 15 train tickets that total \$675 for a client. If each train ticket costs the same amount, how much does 1 train ticket cost?

- A \$45.00
- B \$67.50
- C \$135.00
- D \$10,125.00

unit rate

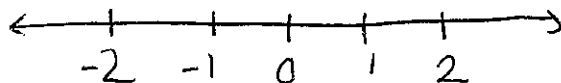
$\frac{\$}{\text{tickets}}$

↳ simplify to 1

27. A meteorologist has a thermometer that measures the temperature in degrees Celsius. One morning the thermometer reads -2°C , and that evening the thermometer reads -1°C .

Which statement about the temperatures is true?

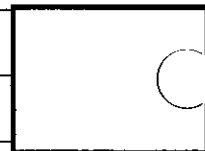
- A $-2^{\circ}\text{C} < -1^{\circ}\text{C}$ expresses the fact that -2°C is colder than -1°C .
- B $-2^{\circ}\text{C} < -1^{\circ}\text{C}$ expresses the fact that -2°C is warmer than -1°C .
- C $-2^{\circ}\text{C} > -1^{\circ}\text{C}$ expresses the fact that -2°C is colder than -1°C .
- D $-2^{\circ}\text{C} > -1^{\circ}\text{C}$ expresses the fact that -2°C is warmer than -1°C .



For questions 28 – 31, make sure to record your answer in the gridded response section of your answer sheet!

28. Find the value of the expression $4x^2 + 5$ when $x = 2.1$

substitute!



29. You can read 40 pages in $2\frac{1}{2}$ hours. How many pages can you read in 3 hours?

pages
= _____
hours

30. Corey can read 45 pages in 15 minutes. At this rate, how many pages can he read in 2 hours? \rightarrow 120 minutes

pages
= _____
min

Above and Beyond!

These problems are above and beyond questions to sharpen your skills when we return on April 7th. **If we were to be out longer than through April 7th for any reason, these are no longer above and beyond and should be completed by all students.**

1) Sea level has an elevation of 0 meters. Four friends are taking scuba diving classes. The table shows the maximum depth each person reaches. Which statement is not correct?

Name	Depth (in meters)
Craig	-4.5
Eileen	-7.2
Sherwin	-3.9
Wren	-6.8

- a. Craig dives deeper than Eileen.
- b. Eileen dives deeper than Sherwin.
- c. Wren dives deeper than Craig.
- d. Wren dives deeper than Sherwin.

2)

A total of 1,022 guests are attending a reception. If each table can seat exactly 12 people, what is the *least* number of tables needed to seat all guests?

- a. 84
- b. 85
- c. 86
- d. 87

3) A putt-putt course has 50 yellow golf balls, 45 red golf balls, and 65 blue golf balls. Which ratio compares the number of blue golf balls to the total number of golf balls?

a. 13:9

b. 13:32

c. 32:9

d. 16:5

4)

A wardrobe contains short and long dresses. If the ratio of short dresses to total dresses is 4:7, which statement is true?

A There are more long dresses than short dresses.

B The ratio of long dresses to short dresses is 3:4.

C The ratio of short dresses to long dresses is 4:11.

D The ratio of total dresses to short dresses is 11:4.

5)

A farmer harvested c pounds of corn. The farmer sold $314\frac{1}{2}$ pounds of corn to a grocery store chain and was left with $742\frac{1}{2}$ pounds of corn.

Which equation and solution represent the number of pounds of corn the farmer harvested?

A The equation $c + 314\frac{1}{2} = 742\frac{1}{2}$ represents the scenario, and the farmer harvested 428 pounds of corn.

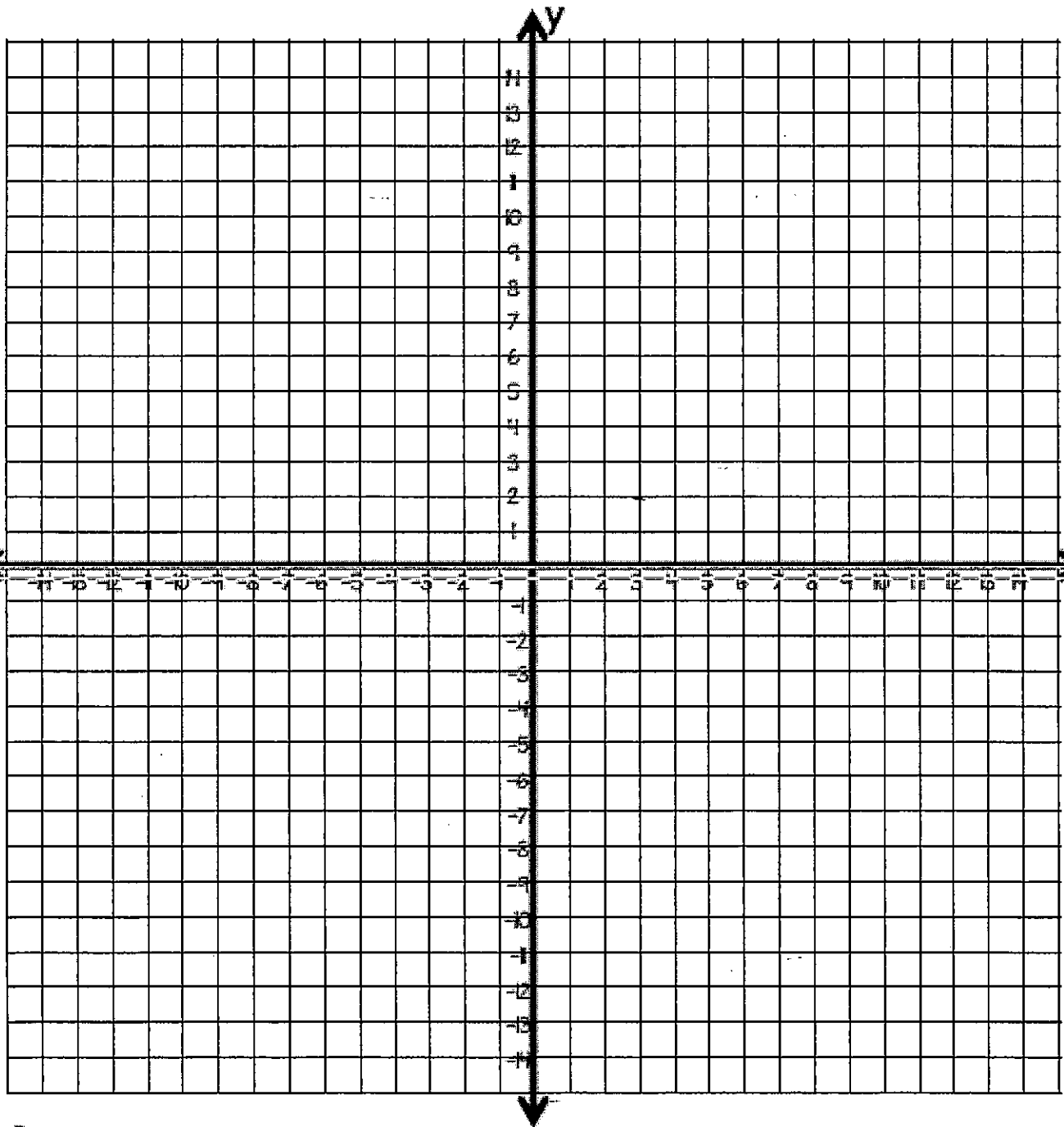
B The equation $c + 314\frac{1}{2} = 742\frac{1}{2}$ represents the scenario, and the farmer harvested 1,057 pounds of corn.

C The equation $c - 314\frac{1}{2} = 742\frac{1}{2}$ represents the scenario, and the farmer harvested 428 pounds of corn.

D The equation $c - 314\frac{1}{2} = 742\frac{1}{2}$ represents the scenario, and the farmer harvested 1,057 pounds of corn.

Additional Above and Beyond!

Graphing on the Coordinate Plane



Winking Eye & Stuck Out Tongue EMOJI

Graph and connect each consecutive point until you reach the word STOP.
Then start a new line, continuing to connect each point until you reach STOP again.

$(2, 14)$ $(6, 13)$ $(7, 12)$ $(8.5, 11)$ $(10.5, 9)$ $(12, 7)$ $(13, 5)$ $(14, 2)$ $(14, -2)$ $(13, -5)$ $(12, -7)$ $(10.5, -9)$ $(8.5, -11)$ $(7, -12)$ $(6, -13)$ $(3, -14)$ STOP	$(-3, -14)$ $(-5, -13)$ $(-7, -12)$ $(-8.5, -11)$ $(-10.5, -9)$ $(-12, -7)$ $(-13, -5)$ $(-14, -2)$ $(-14, 2)$ $(-13, 5)$ $(-12, 7)$ $(-10.5, 9)$ $(-8.5, 11)$ $(-7, 12)$ $(-5, 13)$	$(-2, 14)$ $(2, 14)$ STOP $(-8, 1)$ $(-6, 1.5)$ $(-4, 1.5)$ $(-3, 0)$ $(-2, 0)$ $(-2.5, -0.5)$ $(-1, 0)$ $(-1, 0)$ $(-7, 0)$ $(-8.5, -1)$ $(-9, -0.5)$ $(-8, 1)$ STOP	$(2, 3)$ $(3, 3)$ $(4, 3)$ $(5, 3)$ $(6, 3)$ $(7, 3)$ $(8, 3)$ $(9, 3)$ $(10, 3)$ $(11, 3)$ $(12, 3)$ $(13, 3)$ $(14, 3)$ STOP	$(5, 2)$ $(5.5, 3)$ $(7.5, 3)$ $(8, 2)$ $(8, 1)$ $(7.5, 0)$ $(5.5, 0)$ $(5, 1)$ $(5, 2)$ STOP $(-3.5, -10)$ $(-5, -9)$ $(-7.5, -7)$ $(-8.5, -5)$	$(-8, -4.5)$ $(-5, -5)$ $(0, -5.5)$ $(5, -5)$ $(8, -4.5)$ $(8.5, -5)$ $(7.5, -7)$ $(5, -9)$ $(3.5, -10)$ $(3.5, -13)$ $(3, -14)$ $(0, -14.5)$ $(-3, -14)$ $(-3.5, -13)$ $(-3.5, -6)$ $(3.5, -6)$ $(3.5, -10)$ STOP
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