

Name: _____

Date: _____

ELA – Jones

8th Grade Summer Packet

Dear students and parents of the incoming 8th grade classes,

Over the summer break, **you are to read *Animal Farm* by George Orwell and write a one-paragraph summary (5-8 sentences) of the story. To accompany the summary, you will present a project of your choice to the class.** Your summary should include the 5 plot stages with the central idea and 3 key details. Attached to this packet is a graphic organizer to help you with your summary. Your summary must be proofread and should not include your own opinion. Finally, you will need to present your novel to the class in one of the following unique ways:

- Keep a journal of at least 5 quotes from a character of the novel. The character can be someone you relate to or just someone who says things that you have strong feelings about. Include at least 2 paragraphs explaining the feelings you have about the quotes and how you may or may not relate to the character.
- Write a letter to the author of at least 3 paragraphs telling him how you felt while reading his novel.
- Make a picture book of at least 5 sketches of important characters from the novel. Each character's page must have at least 3 sentences describing who the character is and how this character is important to the novel.
- Write at least 3 paragraphs responding to "This book made me wish...".

Conclude the essay with a bulleted list of the top 10 reasons to read this book.

Again, the full completed assignment is due on the **first day of school**. This is 30% of your first marking period grade. A rubric for this assignment is below. **Late assignments will not be accepted.** I hope you have a restful and enjoyable summer!

See you in September!

Mrs. Jones

Rubric:

	4	3	2	1
Summary	The summary includes the central idea, key details, and major events. It is written in your own words. It is proofread and free of errors.	The summary includes the central idea and details. It is written in your own words. It has a few errors, but it is not difficult to read.	The summary includes the central idea. It may have too many or too little details. It has many errors.	The summary has your opinion included. It has too many errors making it difficult to read.
Project	The project was complete and interesting.	The project was complete.	The project was lacking in some areas.	The project was not complete.
Presentation Delivery	Your presentation delivery was clear and understandable.	Your presentation delivery was understandable.	Your presentation delivery was a little hard to understand.	Your presentation delivery was not understandable at all.
Effort	You put a lot of obvious effort into your summary, project, and presentation delivery.	You put good effort into your summary, project, and presentation delivery.	You put little effort into your summary, project, and presentation delivery.	You did not put appropriate grade level effort into your summary, project, and presentation delivery.

You can use the following graphic organizer to help you compose your summary.

Title and Author

Setting	Central Idea
Characters	

Exposition:
Rising Action:
Climax:
Falling Action:
Resolution:

Key Detail 1:
Key Detail 2:
Theme:

Middle Schoolers,

The attached packet provides a range of questions that review and expand on the Math concepts you have learned this past school year. You must show your work next to each multiple choice problem. Questions that only have an answer circled will not be accepted. Open ended questions must be labeled Step 1, Step 2.. to organize your thinking.

This packet will be due on the first day of school, September 9, 2019. This will be 30% of your first marking period grade. **Packets that are late will not be accepted.**

Enjoy your summer,

Your Middle School Math Teacher

1. Which expression is equivalent to $5\frac{1}{8}n + 4\frac{1}{2}(2 + n)$?

A $6\frac{1}{8}n + 9$

B $9n + 9\frac{5}{8}$

C $11\frac{5}{8}(n)$

D $9 + 9\frac{5}{8}n$

2. Simplify:

$$3(2x - 6) + x$$

A $6x - 18$

B $7x - 6$

C $7x - 18$

D $5x - 6 + x$

3. Simplify:

$$8x + 3(x + 5) - 5(x - 4)$$

A $6x + 35$

B $6x + 1$

C $6x - 5$

D $43x$

4. Simplify the expression:

$$4(x+3) + 3(5-x)$$

- A $x + 27$
- B $x + 8$
- C $2x + 15$
- D $19x + 11$

5. Kyle is told that the distance between the lower waterfall and the upper waterfall is $1\frac{1}{2}$ miles. The distance between the waterfalls on Kyle's map is $\frac{1}{2}$ inch. How many miles does 1 inch represent on the map?

- A $\frac{1}{3}$ mile
- B $\frac{3}{4}$ mile
- C 2 miles
- D 3 miles

6. Rick drove for 45 minutes on Wednesday for a distance of 34.5 miles. On Thursday, he increased his speed by 3 miles per hour, and he drove for 75 minutes. How many miles did Rick drive on Thursday?

- A 61.25 miles
- B 60.00 miles
- C 64.50 miles
- D 57.50 miles

7. Judy paid \$120.96 for carpet for her room that is 144 square feet. Nathan liked the carpet she chose, but he wasn't sure it would match the walls in his living room, so he purchased a 1-square-foot sample of the same carpet. Based on the price Judy paid, what was the cost of the sample?
- A \$10.08
 - B \$0.84
 - C \$1.19
 - D \$23.04

8. A recycling plant processes an average of $\frac{1}{3}$ ton of glass each minute. At approximately what rate does the recycling plant process glass, in tons per day? (1 day = 24 hours)
- A 20 B 180 C 480 D 4,320
9. The original selling price of a share of stock was d dollars. The selling price for a share of the same stock at a later date was represented by the expression $1.15(0.95d)$. Which description could explain what happened to the price of the share of stock?
- A The price decreased by 5% and then increased by 0.15%.
- B The price decreased by 95% and then increased by 0.15%.
- C The price decreased by 5% and then increased by 15%.
- D The price decreased by 95% and then increased by 15%.

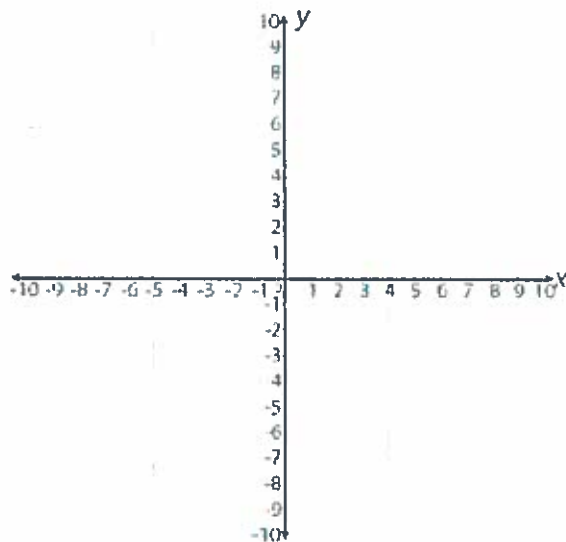
The following questions are not about a passage.

10. Kevin used $\frac{7}{8}$ of a 5-gallon bucket of paint to paint four rectangular walls that are all the same area. How much paint did Kevin use on each wall?
- A $2\frac{1}{8}$ gallons
- B $\frac{7}{32}$ gallon
- C $1\frac{1}{4}$ gallons
- D $1\frac{3}{32}$ gallons

11. Michelle hiked $2\frac{1}{4}$ miles on Saturday in $\frac{5}{6}$ hour. On Sunday, she hiked at the same rate for 1 hour. How many miles did Michelle hike on Sunday?

- A $1\frac{7}{8}$ miles
- B $2\frac{7}{10}$ miles
- C $2\frac{5}{24}$ miles
- D $3\frac{1}{12}$ miles

12. Use this coordinate plane to help answer the question.



Which two points belong to the graph of a proportional relationship?

- A (0, -2) and (2, 0)
- B (-2, 1) and (4, -2)
- C (4, 2) and (2, 2)
- D (1, 2) and (4, 5)

13. The table below gives the price for several different slices of pie sold at a bakery.

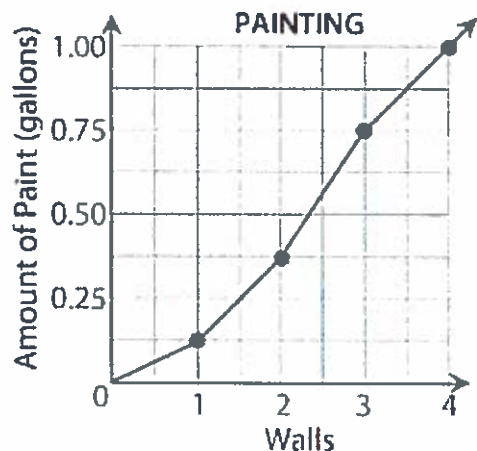
Cost of Pie Slices

Number of Slices	Cost (\$)
1	4
2	8
3	12
5	15
10	25

Which statement explains whether or not the price per slice for 3 slices of pie is proportional to the price per slice for 10 slices of pie?

- A They are not proportional because $\frac{12}{3} = \frac{25}{10}$.
- B They are proportional because $\frac{12}{3} = \frac{25}{10}$.
- C They are proportional because $\frac{12}{3} = \frac{40}{10}$.
- D They are not proportional because $\frac{12}{3} = \frac{40}{10}$.

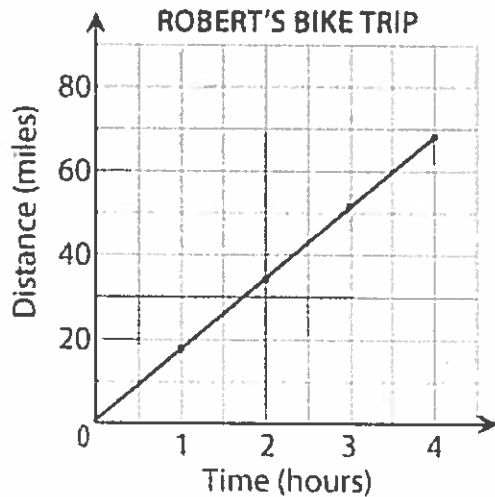
14. The graph below represents the amount of paint Mrs. Abel used when she painted four rectangular walls that have the same area.



What can be concluded about the graph?

- A The graph is not a straight line through the origin because the proportion of paint per wall is the same for each wall.
- B The graph is a straight line through the origin because the proportion of paint per wall is not the same for each wall.
- C The graph is a straight line through the origin because the proportion of paint per wall is the same for each wall.
- D The graph is not a straight line through the origin because the proportion of paint per wall is not the same for each wall.

15. Robert recorded the number of miles he had biked every hour of a 4-hour bike trip. He graphed the results on the grid below.



Which statement best explains whether or not Robert's graph represents a proportional relationship?

- A The graph represents a proportional relationship because the rate of miles per hour is the same at each point.
 - B The graph does not represent a proportional relationship because it is not a horizontal line showing the same number of miles traveled each hour.
 - C The graph does not represent a proportional relationship because the rate of miles per hour is always increasing.
 - D The graph represents a proportional relationship because the rate of miles per hour is always decreasing.
16. Which equation of a line represents a proportional relationship between x and y ?

- A $y = 5x$
- B $y = 5x - 5$
- C $y = 5$
- D $y = 5x + 5$

17. When Jesse makes cookies, he uses equivalent ratios of sugar to flour. Which table shows all equivalent ratios?

A

Sugar (cups)	$\frac{1}{2}$	$\frac{3}{4}$	1	$2\frac{1}{2}$	4
Flour (cups)	1	$1\frac{1}{4}$	$1\frac{1}{2}$	3	6

B

Sugar (cups)	$\frac{1}{2}$	$\frac{3}{4}$	1	$2\frac{1}{2}$	4
Flour (cups)	$\frac{3}{4}$	$1\frac{1}{2}$	2	5	8

C

Sugar (cups)	$\frac{1}{2}$	$\frac{3}{4}$	1	$2\frac{1}{2}$	4
Flour (cups)	$\frac{3}{4}$	$1\frac{1}{2}$	3	5	6

D

Sugar (cups)	$\frac{1}{2}$	$\frac{3}{4}$	1	$2\frac{1}{2}$	4
Flour (cups)	1	$1\frac{1}{2}$	2	5	8

18. If 75% of a number is 24, what is 50% of the number?

- A 64
- B 16
- C 12
- D 9

- 19. The original price of a bicycle was \$150.00. Jeremy bought the bike at a time when the store was having a 20% off clearance sale.**

What was the price of bicycle when Jeremy bought it?

- A \$149.80**
- B \$140.00**
- C \$130.00**
- D \$120.00**

- 20. An item that regularly sells for \$425 is marked down to \$318.75.**

What is the discount rate?

- A 0.25%**
- B 2.5%**
- C 25%**
- D 250%**

- 21. A store is selling a pair of jeans for \$60.00. If this price included a markup of 25%, what did the store originally pay for the pair of jeans?**

- A \$12.00**
- B \$48.00**
- C \$75.00**
- D \$82.00**

22. The car was regularly priced at \$20,000. The dealership is having a sale right now and selling the car with a discount of \$2,750.

What percent discount are you getting?

- A 0.1375%
 - B 1.375%
 - C 13.75%
 - D 137.5%
23. Sam's Fruit Cellar earns a \$0.40 profit for each apple that it sells and a \$0.40 profit for each banana that it sells. Which expression shows Sam's total profits from selling apples (a) and bananas (b)?
- A $0.40(ab)$
 - B $0.40(a + b)$
 - C $0.40 + a + 0.40 + b$
 - D $0.80(ab)$

24. Irene is opening a lawn equipment rental business. She does not know how much equipment she needs to purchase, but she does know the cost of the equipment. This is shown in the table below.

Item	Cost	Amount to Purchase
Trimmer	\$195	x
Edger	\$195	y
Mower	\$295	z

Which of the following expressions represents Irene's total cost to purchase her equipment?

- A $195(x + y + 100z)$
- B $195(x + y + z + 100)$
- C $195(x + y + z) + 100z$
- D $195 + x + 195 + y + 295 + z$
25. Carley bought a jacket that was discounted 10% off the original price. The expression below represents the discounted price in dollars, based on x , the original price of the jacket.

$$x - 0.1x$$

Which expression represents the same discounted price?

- A 1.1
- B $1.1x$
- C $0.9x$
- D 0.9

26. Wendy has x pounds of potatoes and gives $\frac{1}{3}$ of her potatoes to Jane. Tom has y pounds of potatoes and also gives $\frac{1}{3}$ of them to Jane. Select all the expressions that represent the number of pounds of potatoes Jane has.

1. $\frac{1}{3}\left(\frac{x}{y}\right)$
2. $\frac{(x+y)}{3}$
3. $\frac{1}{3}x + y$
4. $\frac{x}{3} + \frac{y}{3}$

- A 1 only
- B 2 and 3 only
- C 2 and 4 only
- D 4 only

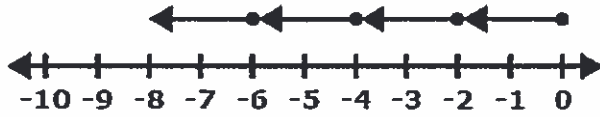
27. **Sofía y Mónica trabajan como meseras. Ambas ganan \$7.75 por hora, más las propinas. El fin de semana pasado, Sofía trabajó x cantidad de horas y ganó \$153.95 de propinas. Mónica trabajó y cantidad de horas y ganó \$129.02 de propinas. Sofía determinó que podía usar la expresión $7.75x + 153.95 + 7.75y + 129.02$ para calcular el monto que ganaron las muchachas en conjunto el fin de semana pasado.**

Selecciona *otra* expresión que las muchachas podrían usar.

- A $7.75x + y + 282.97$
- B $7.75(x + y) + 282.97$
- C $7.75(xy) + 282.97$
- D $7.75x + 7.75y - 282.97$

28. This year, Martin's income is $\frac{1}{4}$ greater than his income from last year. If x represents Martin's income last year, what is his income this year?
- A $4x$
 - B $\frac{5}{4}x$
 - C $\frac{1}{4}x$
 - D $\frac{4}{5}x$
29. On a business trip, Mr. Peters drove a distance of 250 miles at a constant speed. The trip took a total of 5 hours, but he stopped for x hours to rest. Which expression represents the speed, in miles per hour, that Mr. Peters drove?
- A $250(5 + x)$
 - B $\frac{250}{5 + x}$
 - C $250(5 - x)$
 - D $\frac{250}{5 - x}$
30. Which expression is the simplified form of $-10 + 3x - x - 7x + 5x + 7 + 2x$?
- A $4x - 3$
 - B $2x - 3$
 - C $-18x - 17$
 - D $-x$

31. Write an equation that represents the arrows on the number line below.



Explain your reasoning.

32. Using a diagram, factor the expression $18x + 30$. Explain your reasoning.

33. A table of values is shown below.

x	-8	-2	2	8
y	9	$2\frac{1}{4}$	$-2\frac{1}{4}$	-9

Part A:

Write an equation that represents this proportional relationship.

Part B:

What is the value of y when $x = -11$?



34. In his first 12 at bats during the baseball season, Jose had 4 hits. He maintained this hit rate throughout the entire season.

Part A:

Jose had 384 at bats throughout the season. Write a proportion that represents the relationship between Jose's at bats and hits (h).

Part B:

How many hits did Jose have during the entire season?



- 35. A desk was purchased at a furniture retailer for \$352.08. This price includes an 8% sales tax that is paid to the state.**

Part A:

Not including the sales tax, how much was the desk sold for?

Part B:

The furniture retailer wishes to increase the amount of money that they make on each desk that they sell. The retailer purchases the desks for \$235 and wishes to make a 55% profit on them (before taxes). What should the retailer charge for each desk? (not including the sales tax)

- 36. Jeanie buys 4 pairs of jeans at x dollars each and a t-shirt for \$5.99. Jeanie states that the total cost, before taxes, of her purchases is \$77.95. Determine the value of x that would make Jeanie's statement true and explain your reasoning.**

37. Gabrielle is saving up for a vacation. She has already saved \$800 and will save x dollars every week for the next 10 weeks. Gabrielle states that she will have saved at least \$2000 at the end of the 10 weeks. Determine the conditions of x for Gabrielle's statement to be true and explain your reasoning.



