8th grade Summer Reading Project 2019

Name _____

Welcome to 8th grade! For your summer reading project, you will be reading the book *The River Between Us* by Richard Peck. You are responsible for reading the whole book and imagining that you are a news reporter doing a report on the experience of families during the Civil War.

You will be conducting an interview with Tilly Pruitt, written as if it were an article in a newspaper at the time. These interview questions must be in-depth and thoughtful, and the answers you develop must be true to the character.

Guidelines

1) **Paragraph layout**:
    a. Introduction paragraph explaining topic of Civil War and introducing the character of Tilly
    b. 5 questions with responses (see rubric for specific details)
    c. Conclusion paragraph summing up the interview as a whole
2) **Staple all pages with a stapler (no paperclips!)**
3) **Attach the rubric, which you have READ very carefully!**
4) **Turn in on the first day of school, Tuesday, September 3rd**

As a reminder, plagiarism is taken very seriously at our school and projects will receive **zero credit** if plagiarism is detected.

Enjoy ☺

Questions	Checklist	Grade

Questions are deep and thought- provoking, requiring in-depth answers beyond the text (10) At least 1 questions are about the character's past (2) At least 3 questions are about the character's present (2) At least 1 question is about the character's future (1) All questions reference the character's opinions and feelings (5)		
Answers Each answer is a minimum of 5 sentences long (10) Each answer demonstrates thought beyond the text (5) Each answer is realistic and is consistent with the character's personality (5)	_____ _____ _____	_____ _____ _____
Design Interview is written as a magazine article, including a headline (5) Interview has an introductory paragraph explaining the reporter's encounter with Tilly (5) Each question is written as a new paragraph or section (5) Interview has concluding paragraph summing up the interview as a whole (5)	_____ _____ _____ _____	_____ _____ _____ _____
Writing Grammatical conventions (punctuation, spelling, and capitalization) are followed (10) Sentence structure is correct, without fragments or run-ons (10) Writing is clear and cohesive (10)	_____ _____ _____	_____ _____ _____
Overall Project is typed or handwritten neatly (5) Rubric sheet is turned in with project, stapled to it or in a report folder (2) Proper heading is on project with name, grade, date and subject (3)	_____ _____	_____ _____
Total: (100)	_____	_____

Incoming 8th grade Summer Math packet

Show your work where needed on a separate sheet of paper and attach to completed packet

Multiple Choice

Read each question. Then write the letter of the correct answer on your paper.

1. Which list is in order from least to greatest?
   - (F) $\frac{1}{3}, \frac{3}{4}, 0.2$
   - (G) $5\frac{1}{8}, 5\frac{1}{4}, 5\frac{2}{3}$
   - (H) $\frac{13}{12}, 0.8, \frac{3}{7}$
   - (J) $\frac{8}{9}, \frac{2}{5}, \frac{1}{2}$

2. A deck has 12 cards numbered 1 to 12. Ashley needs a number greater than 9 to win a game. If she selects a card at random, what is the probability that she will win?
   (F) $\frac{1}{4}$ (G) $\frac{1}{3}$ (H) $\frac{3}{4}$ (J) $\frac{5}{6}$

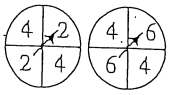
3. What is the solution of $-15 = m - 9$?
   (A) -24 (B) -6 (C) 6 (D) 24

4. Which jar of peanut butter is the best buy?
   - (F) an 18-oz jar for $1.69
   - (G) a 30-oz jar for $2.59
   - (H) a 32-oz jar for $2.89
   - (J) a 24-oz jar for $2.09

5. The temperature at 6 P.M. is $-4°C$. By midnight, the temperature has decreased by $3°C$. What is the temperature at midnight?
   (A) $-7°C$ (B) $-1°C$ (C) $1°C$ (D) $7°C$

6. Which choice does NOT equal the others?
   - (F) 4% of 3,000
   - (G) 40% of 30
   - (H) 40% of 300
   - (J) 30% of 400

7. Suppose you spin the spinners once. What is the probability that the sum of the numbers is 10?

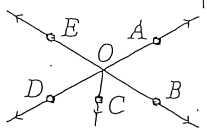


   (A) 0 (B) $\frac{1}{4}$ (C) $\frac{1}{2}$ (D) $\frac{3}{4}$

8. What is the solution of $5y + 11 = 56$?
   (A) 8 (B) 9 (C) 13 (D) 10

9. A store sells a package of socks for $4.89, a T-shirt for $7.79, and shorts for $14.95. Ellie buys one item and receives $12.21 change from a $20 bill. Which equation can you use to find out what Ellie buys?
   - (F) $20n = 12.21$
   - (G) $20 + n = 12.21$
   - (H) $14.95 - n = 12.21$
   - (J) $20 - n = 12.21$

10. In the diagram at the right, which two angles are adjacent angles?



    - (F) $\angle EOD, \angle DOC$
    - (G) $\angle BOC, \angle BOD$
    - (H) $\angle AOE, \angle BOC$
    - (J) $\angle AOB, \angle EOD$

11. A circle has circumference 56.52 ft. What is its area? Use 3.14 for π.
    - (A) $28.26\ ft^2$
    - (B) $56.52\ ft^2$
    - (C) $254.34\ ft^2$
    - (D) $1{,}017.36\ ft^2$

12. What is the solution of the inequality $-4p < 36$?
    - (F) $p > 9$
    - (G) $p < -9$
    - (H) $p > -9$
    - (J) $p < 9$

13. Which expression is equal to 54?
    - (A) $-3 \times 3 \times 6$
    - (B) $3 \times 3 \times (-6)$
    - (C) $-3 \times 3 \times (-6)$
    - (D) $-3 \times (-3) \times (-6)$

14. What is the order of the numbers from least to greatest? $\frac{1}{8}, -0.18, 0.2, -\frac{2}{13}$
    - (F) $-\frac{2}{13}, -0.18, \frac{1}{8}, 0.2$
    - (G) $-0.18, -\frac{2}{13}, 0.2, \frac{1}{8}$
    - (H) $-0.18, -\frac{2}{13}, \frac{1}{8}, 0.2$
    - (J) $-\frac{2}{13}, 0.2, \frac{1}{8}, -0.18$

15. What is the solution of $\frac{x}{6} = \frac{20}{32}$?
    (A) 3 (B) 3.75 (C) 4.8 (D) 5

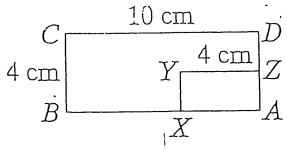
16. Which equation has the solution $x = 4$?
    - (F) $x + 3 = -7$
    - (G) $5 + x = 9$
    - (H) $x - 8 = 12$
    - (J) $1 + x = 3$

17. A diver's elevation is decreasing at a rate of 30 feet per minute. If the diver starts at sea level, what will her elevation be after 2.5 minutes?

Ⓕ −75 feet Ⓗ 12 feet
Ⓖ −12 feet Ⓙ 75 feet

18. Rectangle $ABCD$ and rectangle $AXYZ$ are similar. How long is $\overline{XY}$?

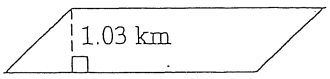
Ⓕ 2.5 cm Ⓗ 1.6 cm
Ⓖ 2 cm Ⓙ 1.5 cm



19. At the beginning of June, the level of water in a lake compared to normal is $-2\frac{1}{2}$ feet. During June the water level decreases by $3\frac{1}{4}$ feet. What is the water level of the lake compared to normal at the end of June?

Ⓐ $-\frac{3}{4}$ feet Ⓒ $-5\frac{1}{4}$ feet
Ⓑ $-1\frac{1}{4}$ feet Ⓓ $-5\frac{3}{4}$ feet

20. A farmer's field is shaped like a parallelogram. The base of the field is 4 times the height. What is the area of the field in square kilometers? Round to the nearest hundredth.



21. What is $\frac{9}{20}$ written as a decimal?

22. Isabelle deposits $400 in an account that earns simple interest at an annual rate of 3%. If Isabelle makes no other deposits or withdrawals, how much money will be in the account at the end of 5 years?

23. You and four friends are planning a surprise birthday party. Each of you contributes the same amount of money m for the food.
   a. Write a variable expression for the total amount of money contributed for food.
   b. Evaluate your expression for $m = \$7.75$.

24. You plan a party and spend $26 on decorations. Each of the tables will have 8 party favors and 8 individual flowers. The flowers cost $2.50 each. Which equation can you use to find the cost of each party favor?

Ⓕ $8x + 2.50 = 26$ Ⓗ $8(x + 2.50) = 26$
Ⓖ $8(2.50)x = 26$ Ⓙ $8(x - 2.50) = 26$

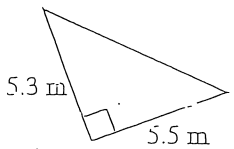
Short Response

25. a. Write 0.9% as a decimal.
    b. Write 0.9% as a fraction.

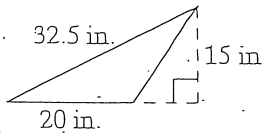
26. A map with the scale 2 in. : 250 mi shows two ponds to be 4 in. apart. How many miles apart are the ponds? Show your work.

27. Find the area of each triangle below.

a.



b.



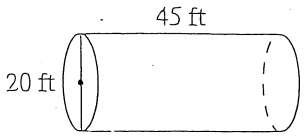
28. It costs $14 per hour to rent a paint sprayer plus a $40 delivery fee. Mr. Bolton rents a paint sprayer for 6 hours. He is charged $138. Was Mr. Bolton charged the correct amount? Support your answer by writing and solving an equation.

29. Solve the equation $-3(n + 6) = 18$. Show your work, and justify each step.

30. Solve $x - 6 \geq -8$. Then graph the solution set.

Extended Response

31. a. Draw a net of the cylinder shown.



    b. Find the surface area of the cylinder to the nearest tenth. Show your work.

32. You treat a friend to dinner. The cost of the food items from the menu totals $20.46. The sales tax on the food is 5%. You give a tip of 25% (before tax) for excellent service.
    a. How much is the sales tax?
    b. How much is the tip?
    c. What is the total cost of the dinner?

Multiple Choice

Read each question. Then write the letter of the correct answer on your paper.

1. Which numbers are all solutions of the inequality $-3x > 15$?
   - (A) $-5, -10, -8$
   - (B) $0, -3, 4$
   - (C) $-20, -7, -10$
   - (D) $10, 6, 9$

2. Which of the following shows the expression $-4(2x + 7) + 15$ simplified?
   - (F) $-8x - 13$
   - (G) $-4x - 13$
   - (H) $-4x + 23$
   - (J) $8x + 13$

3. Which shows the integers in order from greatest to least?
   - (A) $5, -1, -6$
   - (B) $-6, 5, -1$
   - (C) $-6, -1, 5$
   - (D) $-1, 5, -6$

4. Your math class lasts for $\frac{5}{6}$ hr. Which shows the same amount of time?
   - (F) 0.83 hr
   - (G) $0.8\overline{3}$ hr
   - (H) $0.\overline{83}$ hr
   - (J) 0.84 hr

5. What can the expression $n - 4$ represent?
   - (A) the time you are in 4 classes that are each n minutes long
   - (B) the cost of each egg roll in a serving of 4 egg rolls that costs n dollars
   - (C) your age if you are 4 years older than your cousin who is n years old
   - (D) the hours you must still travel 4 hours after you start a trip of n hours

6. Which shows the value of the expression $7r - \frac{1}{2}t$ for $r = 2$ and $t = 4$?
   - (A) 27
   - (B) 12
   - (C) 10
   - (D) 5

7. Which expression is NOT equivalent to $12a$?
   - (A) $2(-6a)$
   - (B) $2(2a) + 8a$
   - (C) $-3(-4a)$
   - (D) $3(-2a) + 18a$

8. What is the solution of $4(x - 5) = 20$?
   - (F) $x = 0$
   - (G) $x = 5$
   - (H) $x = 10$
   - (J) $x = 25$

9. You have \$40 to spend on DVDs. Each DVD costs \$13.99. What is the greatest number of DVDs you can buy?

Short Response

10. During the summer, you work 27 hours per week. Each week, you earn \$168.75. How many dollars do you earn per hour?

11. The sum of -2 times a number and 6 is less than 4.
    a. After you write the inequality, what is the first step you will take to solve it?
    b. What is the second step?

Extended Response

12. You save the same amount of money each month for 3 months. Your grandparents give you \$25 for your birthday.
    a. Write an inequality to show that you have more than you need to buy an MP3 player that costs \$130.
    b. How much money did you save each month? Justify your answer.