



Rising 8th Grade Language Arts & Math Summer Assignments 2026

Language Arts

8th grade will select **one book** to read from the following list of books:

- *Restart* – Gordon Korman
- *The Seventh Most Important Thing* – Shelley Pearsall
- *Finding Mighty* – Sheela Chari.

When students have finished reading, they will need to create **3 different creative journal entries (pages)**. A creative journal entry is a notebook page with drawings and/or sketches along with the writing. Examples of creative journal entries are attached.

- Ideas include - setting, characters, plot, theme, and free-choice entries.
- Journal entries need to be completed on notebook paper and labeled.
- In order to receive full credit, each journal must include the following:
 - graphics with color
 - writing that includes text evidence
 - analysis (thought prompts)
- Entries should be detailed, thoughtful, and creative.

Students will submit their journals for credit on the first day of school in August, worth 60 points. They should also bring their book with them to school for the first week, as we will be discussing the books in class.

Choice Reading: While students are only required to read one book, reading all summer long is encouraged. Choose novels that interest you and are on your reading level. It is good to challenge yourself a little! Remember, reading is the single most important factor in student success.

Pre-Algebra

Summer math is assigned to help students retain math skills and enable the math classes to spend less time reviewing past material and forge ahead with new math skills. It has been designed to review topics students learned during the past school year, which are crucial for success in the next grade level.

All students are expected to complete the entire Summer Skills packet to the *best of their ability*. Students should show their work so we can see the thought process used to complete the problems.



or



your final answer. Please keep in mind that we are looking for a good effort at completing the problems, more than a correct answer. Good effort includes attempting the problems and showing the work/thought process used to achieve an answer. A pacing suggestion would be to complete 2 - 3 pages a week. **This assignment is due Wednesday, August 12th, the first day of the new school year, and is worth 50 points.**

Here's a list of highly recommended authors for middle school readers (grades 6–8), across genres and interests. These authors are known for engaging plots, relatable characters, and age-appropriate themes:

Realistic Fiction

- **Jason Reynolds** – *Ghost*, *Look Both Ways*
- **Sharon Draper** – *Out of My Mind*, *Blended*
- **Jacqueline Woodson** – *Brown Girl Dreaming*, *Harbor Me*
- **Gordon Korman** – *Restart*, *Ungifted*
- **R.J. Palacio** – *Wonder*

Historical Fiction

- **Ruta Sepetys** – *Between Shades of Gray*, *Salt to the Sea*
- **Lauren Tarshis** – *I Survived* series (accessible for younger or reluctant readers)
- **Alan Gratz** – *Refugee*, *Ground Zero*, *Prisoner B-3087*
- **Pam Muñoz Ryan** – *Esperanza Rising*, *Echo*

Fantasy / Science Fiction

- **Rick Riordan** – *Percy Jackson* series, *Heroes of Olympus*
- **Tamora Pierce** – *Song of the Lioness*, *The Circle of Magic*
- **Eoin Colfer** – *Artemis Fowl* series
- **Tui T. Sutherland** – *Wings of Fire* series
- **Brandon Mull** – *Fablehaven*, *Beyonders*

Mystery / Adventure

- **Stuart Gibbs** – *Spy School*, *FunJungle*
- **Trenton Lee Stewart** – *The Mysterious Benedict Society*
- **Jennifer Nielsen** – *The False Prince*, *Resistance*
- **Anthony Horowitz** – *Alex Rider* series

Graphic Novels

- **Raina Telgemeier** – *Smile*, *Drama*, *Guts*
- **Gene Luen Yang** – *American Born Chinese*, *Dragon Hoops*
- **Victoria Jamieson** – *Roller Girl*, *When Stars Are Scattered*
- **Jerry Craft** – *New Kid*, *Class Act*

Poetry / Novels in Verse

- **Kwame Alexander** – *The Crossover*, *Booked*
- **Nikki Grimes** – *Garvey's Choice*, *Bronx Masquerade*

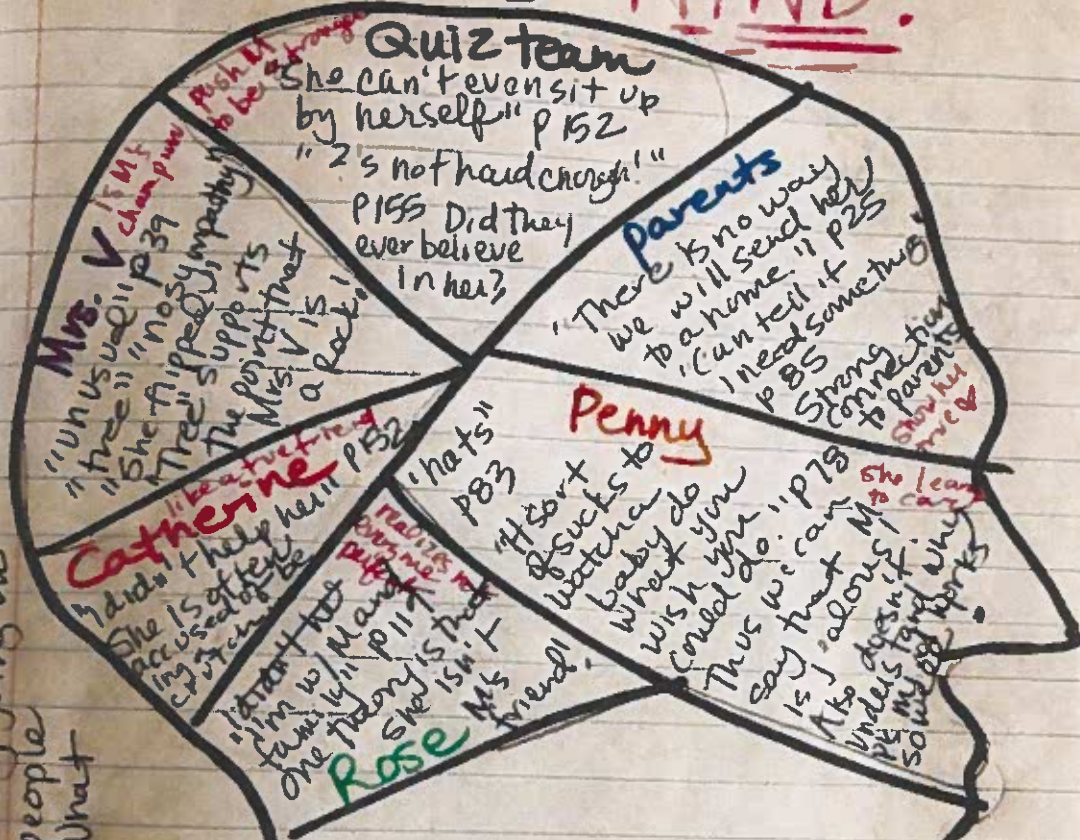
7th and 8th Grade Samples

Comparing 2 characters:

Rosa	Jessica
• philosophical • hopeful • kind • contained • trapped • smart	• kind • free • athletic • hopeful • happy
Both have freedom but in different ways	Rosa and Jessica are very alike and different at the same time. They are similar in the physical way that they both have disabilities but, are different in the way they think and that Rosa is not free. One theory is that Rosa is such a philosophical thinker because she has been trapped in her mind. This is where she finds her freedom to roam pondering questions like "where does wind go?" Jessica though she has lost a leg is still free to roam in real life giving her not as much time to have internal thoughts like Rosa. 

OUT of MY MIND!

How does Melody truly feel about all the people in her life? What is really going on in her mind. Are these people positive or negative? What is their influence?



When I first read OOMM, I thought people in Melody's life had clear negative or positive influences on M. But now when I look deeper, I realize that all parties had a positive impact on M even if it's hard to see! See pink for + impact!

Symbolism: Chapters 16-19 4/17/16

Benin Home



Benin Home symbolized Beah's life as a boy soldier ending. It tried to civilize the boys, however, you can take a boy out of a war, but you can't take the war out of a boy.

Esther

Esther symbolizes Beah's end to his psychological war. I believe this because everytime Esther treated Beah, he would not tell her his name. However, on page 153 Beah finally opened up to Esther, by telling her his name. This shows Beah is finally learning how to trust people again, and forgive himself of what he has done.



Cassette



Ishmael Beah's cassette is a symbol of his childhood. For example, when Beah was little, music brought his brother and friends together. When the soldier threw Beah's cassette into the fire, it represented his childhood being destroyed and his new life as a boy soldier.

Name: _____ Date: _____

Summer Reading Project

	Points Earned	Points Possible
Journal Entry #1		
• Color		3
• Graphics		3
• Text Evidence		7
• Thought Prompts/Analysis		7
Journal Entry #2		
• Color		3
• Graphics		3
• Text Evidence		7
• Thought Prompts/ Analysis		7
Journal Entry #3		
• Color		3
• Graphics		3
• Text Evidence		7
• Thought Prompts/Analysis		7
TOTAL		60

RISING 8TH GRADE SUMMER MATH PACKET



$$D = b^2 - 4ac$$

$$V = \frac{1}{3} \pi r^2 h$$

$$\sin 2\alpha = 2 \cos \alpha$$

$$D = b^2 - 4ac$$

$$V = \frac{1}{3} \pi r^2 h$$

$$\sin 2\alpha = 2 \cos \alpha$$

Name: _____

Adding and Subtracting Decimals

Directions: Add or subtract the decimals.

Example 1: $2.35 + 4.66$

- Line up your decimal point vertically
- Add place values together from right to left, carrying over when needed.

$$\begin{array}{r} 1 1 \\ 2.35 \\ + 4.66 \\ \hline + 7.01 \end{array}$$

Example 2: $8.35 - 4.66$

- Line up your decimal point vertically
- Subtract place values together from right to left, borrowing when needed.

$$\begin{array}{r} 7 12 15 \\ 8.35 \\ - 4.66 \\ \hline + 3.69 \end{array}$$

1. $4.58 + 3.12$	2. $11.34 + 8.16$
3. $3.75 + 5.78$	4. $2.91 + 14.05$
5. $8.46 - 4.88$	6. $12.15 - 11.39$

Name: _____

Multiplying Decimals

Directions: Multiply the decimals.

Example: 4.3×2.61

- Line up problem vertically, aligning the farthest right digit, despite the decimal point.
- Multiply using the standard algorithm, ignoring the decimal point.
- Count how many digits came after the decimals in both numbers. Place the decimal in your answer that many spaces from right to left.

$$\begin{array}{r} 4.3 \\ \times 2.61 \\ \hline 43 \\ 2580 \\ + 8600 \\ \hline 11.223 \end{array}$$

1. 5.6×2	2. 3.5×8.9
3. 3×1.8	4. 0.4×0.5

Name: _____

Dividing Decimals

Directions: Divide the decimals.

Example: $3.3 \div 1.5$

- Set up the problem as long division.
- Move the decimal point to the right of each digit until the divisor (the outside number) is a whole number.
- Move the decimal inside the division box straight up in your answer.

$$\begin{array}{r} 1.5 \overline{) 3.3} = 15 \overline{) 33.0} \\ \underline{-30} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

1. $7.8 \div 1.3$	2. $9.24 \div 1.2$
3. $9.9 \div 7.5$	4. $5.8 \div 2.9$

Name: _____

Adding and Subtracting Integers

Directions: Add and Subtract the integers.

- When you ADD two negatives... it becomes MORE negative. $(-3) + (-5) = -8$
- When you ADD a positive and negative, it's the difference between the numbers, and keep the sign of the larger number. $(-11) + 6 = -5$
- When you see a MINUS sign, change it to addition and change the sign of the second number. $(-3) - 6 = (-3) + (-6) = -9$

1. $(-8) + (-4)$	2. $8 - (-8)$
3. $(-7) + (-4)$	4. $(-1) - (-2)$
5. $(-4) + 7$	6. $(-7) - (-2)$
7. $(-5) - 7 + (-6)$	8. $4 + (-6) + (-5)$
9. $(-5) - 7 + (-6)$	10. $(-1) + (-6) + (-5)$

11. $8 + (-4) + (-1)$	12. $(-5) + 7 - 8$
13. $(-3) + 3 + (-4)$	14. $7 - (-6) + 3$
15. $3 - (-5) + (-6)$	16. $(-6) - 1 - 5$
17. $7 - (-1) + 7 - (-8)$	18. $7 + 1 + (-8) - (-1)$
19. $2 - (-1) + (-5) - (-8)$	20. $8 - (-1) + 6 + (-8)$

Name: _____

Multiplying and Dividing Integers

Directions: Multiply and divide integers

- MULTIPLY and DIVIDE: If the signs are the same, its POSITIVE. If the signs are opposite its NEGATIVE.

$$(-3)(-4) = 12$$

$$(-3)(4) = -12$$

$$24 \div (-8) = -3$$

$$(-24) \div (-8) = 3$$

1. $(-9)(-11)$	2. $(9)(-9)$
3. $(-12)(4)$	4. $(-10)(-6)$
5. $(9)(-3)$	6. $(4)(-8)$
7. $(-5)(-5)$	8. $(-3)(-11)$

9. $(-7)(8)$	10. $(12)(-5)$
11. $(-18) \div (9)$	12. $(-40) \div (8)$
13. $(-60) \div (-6)$	14. $(-18) \div (-3)$
15. $(-70) \div (-10)$	16. $(-28) \div (7)$
17. $(-21) \div (-3)$	18. $(-64) \div (8)$
19. $(-12) \div (4)$	20. $(-24) \div (-8)$

Name: _____

Order of Operations

Directions: Simplify each expression using the order of operations.

- Parenthesis
- Exponents
- Multiplication / Division*
- Addition / Subtraction*

**in the order that it appears*

$$5 \times (4 \times 6 - 4^2)$$

$$5 \times (4 \times 6 - 16)$$

$$5 \times (24 - 16)$$

$$5 \times (8)$$

$$40$$

1. $(4 - 2) \times 4 \times 5$	2. $5 + (3 + 3)^2$
3. $3 \times 3 - 4 \div 2$	4. $16 \div (5 - 3)^2$
5. $3 \times 4 \div 2^2$	6. $(8 - 4) \div (2 + 2)$

7. $6^2 - (5 + 2 - 3)$	8. $3 \div (2^2 - 1^3)$
9. $(16 - 1) \div 3 \times 3 + (4 \div 2)^3$	10. $4 \div (5 - (4 - 1)) + 3^2 + 6$
11. $1 + 14 \div 7 + (6 + 2)^2$	12. $((24 \div 6)^2 - (6 + 5)) \times 3$
13. $(21 \times 3) \div (9 - (2^2 - 2))$	14. $28 \div (5 - (9 - 8)) + 3^2$

Name: _____

One-Step Equations

Directions: Solve each equation.

* Do the opposite operation on both sides.

$$x + 9 = 14$$

$$\quad -9 \quad -9$$

$$x = 5$$

$$\frac{2x}{2} = \frac{16}{2}$$

$$x = 8$$

1. $b + 18 = 21$

2. $-36 = p - 16$

3. $11 = v + 20$

4. $-9x = -27$

5. $m + 14 = 23$

6. $-10 = -20 + a$

7. $60 = -4a$

8. $-7 = \frac{n}{13}$

9. $6 = \frac{x}{15}$

10. $-13 = p + 1$

11. $a - 16 = -25$

12. $-20 = \frac{x}{7}$

13. $m + 11 = -8$

14. $-6x = 30$

Name: _____

Two-Step Equations

Directions: Solve each equation.

- First do the opposite operation of the number NOT attached to the variable (on both sides.) Add or Subtract.

$$2x + 9 = 13$$

$$\quad -9 \quad -9$$

- Second, do the opposite operation of the number attached to the variable (on both sides.) Multiply or divide.

$$\frac{2x}{2} = \frac{4}{2}$$

$$x = 2$$

1. $4x - 1 = 35$	2. $\frac{x}{7} + 5 = 5$
3. $8 - 3n = -25$	4. $-3v - 3 = -33$
5. $\frac{x}{14} + 1 = 2$	6. $-1 - 5n = 39$

7. $11 = 2 + \frac{x}{2}$

8. $\frac{k}{3} + 4 = 1$

9. $57 = 7 - 5n$

10. $8 = \frac{x}{4} + 7$

11. $-8m - 8 = -32$

12. $6 = 7 + \frac{x}{6}$

13. $-2 = -10 - 8b$

14. $51 = -3 - 9p$

Name: _____

Distributive Property

$$\overset{\curvearrowright}{a(b+c)} = ab+ac$$

Examples:

1. $3(x+5) = 3x+15$

2. $-5(2m-10) = -10m+50$

1. $2(3p - 5)$	2. $-5(3r + 6)$
3. $3(-2s - 9)$	4. $7(2x - 11)$
5. $-4(-4y + 8)$	6. $6(3k - 10)$
7. $-3(12m - 4)$	8. $10(-9f - 5)$
9. $6(-2x + 6y)$	10. $-7(11a - 2b)$

Name: _____

Evaluating Expressions

- Substitute the value of the variable, in place of the variable.

$$x^2 + z \div 3; \text{ when } x = 1 \text{ and } z = 3$$

$$(1)^2 + 3 \div 3$$

$$1 + 3 \div 3$$

$$1 + 1$$

$$2$$

- Use the order of operations to evaluate.

1. $h + 3i$; when $h = 1$ and $j = 5$	2. $y - (x - 2)$; when $x = 4$ and $y = 6$
3. $a + b + a$; when $a = 3$ and $p = 2$	4. $y + x \div 5$; when $x = 5$ and $y = 1$
5. $m^2 + p^2$; when $m = 6$ and $p = 2$	6. $b + b + a \div 4$; when $a = 4$ and $b = 3$

Name: _____

Percent Parts and Wholes

Directions: Solve each percent question.

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

Example 1: What is 15% of 40?

$$\frac{x}{40} = \frac{15}{100}$$

$$100x = 600$$
$$x = 6$$

Example 2: 30 is 70% of what?

$$\frac{30}{x} = \frac{70}{100}$$

$$70x = 3000$$
$$x = 42.9$$

1. What is 66% of 150?	2. What is 11% of 92?
3. What is 23% of 37?	4. What is 76% of 27?
5. What is 37% of 68?	6. What is 32% of 110?

Name: _____

Adding and Subtracting Fractions

Directions: Add or Subtract the fractions. Write answer in reduced improper form.

Example: $\frac{2}{3} - \frac{1}{5}$

* Find a common denominator.

$$\frac{2 \cdot 5}{3 \cdot 5} - \frac{1 \cdot 3}{5 \cdot 3} = \frac{10}{15} - \frac{3}{15} = \frac{7}{15}$$

* Check to see if the fraction can be reduced.

1. $\frac{3}{2} + \frac{1}{8}$	2. $\frac{5}{4} - \frac{6}{5}$
3. $\frac{1}{6} + \frac{3}{8}$	4. $\frac{4}{3} - \frac{6}{7}$
5. $\frac{13}{8} - \frac{2}{7}$	6. $\frac{1}{3} + \frac{13}{7}$

Name: _____

Multiplying and Dividing Fractions

Directions: Multiply or divide fractions. Write answer in reduced improper form.

Example: $\frac{3}{5} \times \frac{5}{9}$

- Multiply straight across the top and the bottom.
- Reduce your answer

$$\frac{3}{5} \times \frac{5}{9} = \frac{15 \div 15}{45 \div 15} = \frac{1}{3}$$

Example: $\frac{4}{5} \div \frac{1}{3}$

- Flip the second fraction and multiply

$$\frac{4}{5} \times \frac{3}{1} = \frac{12}{5}$$

1. $\left(\frac{2}{5}\right)\left(\frac{1}{4}\right)$	2. $\left(\frac{1}{2}\right)\left(-\frac{7}{5}\right)$
3. $\left(\frac{5}{6}\right)\left(\frac{8}{5}\right)$	4. $\left(\frac{2}{7}\right)\left(-\frac{1}{2}\right)$
5. $\left(\frac{7}{4}\right)\left(\frac{6}{5}\right)$	6. $\left(-\frac{6}{5}\right)\left(-\frac{2}{3}\right)$

Name: _____

Unit Rates

Directions: Find each unit rate.

A unit rate is a ratio of comparing something to 1 unit of something else.

Example: 4 apples cost \$1.60. What is the unit rate? (The cost of 1 apple)

$$\frac{4 \text{ apples}}{1.60} = \frac{1 \text{ apple}}{x}$$

$$4x = 1.60$$

$$x = \$0.40$$

1. A bakery sells 4 muffins for \$6. What is the cost per muffin?	2. Emma ran 3 miles in 24 minutes. What is her pace in minutes per mile?
3. A grocery store sells 5 pounds of apples for \$7.50. What is the price per pound?	4. Liam types 360 words in 6 minutes. How many words does he type per minute?
5. A car travels 180 miles on 6 gallons of gas. What is the car's fuel efficiency in miles per gallon?	6. A printer prints 240 pages in 8 minutes. How many pages does it print per minute?

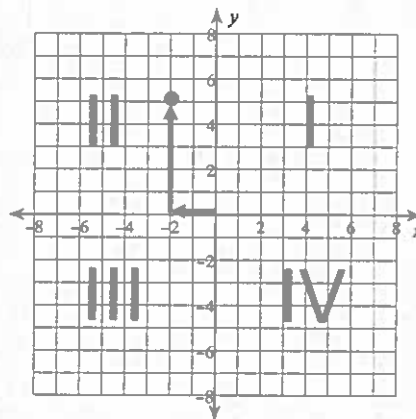
Name: _____

Coordinate Plane

Directions: Plot each set of points on the coordinate plane. State which quadrant it is in.

Example: $(-2, 5)$

- * Starts at the origin $(0,0)$
- * -2 is the x-coordinate. Move 2 spaces to the left of 0 on the x-axis.
- * 5 is y-coordinate. From -2 , move five spaces UP the y-axis.
- Place your point here.
- Identify the Quadrant. This is 2.



	Plot Point	Quadrant?
1)	$(3, 7)$	
2)	$(-4, -10)$	
3)	$(-6, 1)$	
4)	$(0, 7)$	
5)	$(11, -5)$	
6)	$(-8, -8)$	
7)	$(7, 10)$	
8)	$(12, -1)$	
9)	$(-9, 4)$	
10)	$(3, -6)$	

