Incoming 7th Graders

Welcome back to Middle School English Language Arts! This summer you will read one required novel and one choice novel. You will complete the **Getting to Know Your Character** worksheet for the required novel and the **Character Analysis** worksheet for your choice novel. Happy Reading!

- 1. Required Novel: Mockingbird, by Kathryn Erskine
- 2. Choice Novel: Choose one novel from the list below Bronx Masquerade, by Nikki Grimes The Uglies, by Scott Westerfeld Beastly, by Alex Flinn Monster, by Walter Dean Myers Life as We Knew It, by Susan Beth Pfeffer

Required Novel

Getting to Know Your Character Summer Reading

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CHARACTER

A character is a person or animal who takes part in a literary work.

Almost every book revolves around one or more main characters, called **protagonists**.

Who is the protagonist of the novel?

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Who is the protagonist of the novel?

CHARACTER TRAITS

A characteristic or trait is a feature that helps identify or distinguish a character from the other characters in the story.

Characteristics can be **external**, like a character's appearance, or **internal**, such as a character's personality.

Identify one of the protagonist's important traits.

Why is this trait important in the novel?

Find PROOF in the novel to support this trait. Cite your text evidence below:

Identify another one of the protagonist's important traits.

Why is this trait important in the novel?

Find PROOF in the novel to support this trait. Cite your text evidence below:

GOAL

In most stories, the protagonist has a **goal**— something that he or she wants to do. Usually, there is an enemy, problem, or obstacle, known as the main **conflict**, that stops the protagonist from accomplishing his/her goal.

What is the protagonist's goal?

CONFLICT

A **conflict** can be either **external** – between the protagonist and someone/something else – or **internal**— a character's struggle within him or herself, over different ideas or attitudes. Most stories have both types of conflict.

What is the main external conflict of the story?

What is the main internal conflict of the story?

RESOLUTION

Overcoming the conflict in the story is what changes the protagonist. Where, when, and how the protagonist overcomes the obstacle and how the protagonist subsequently changes is called the resolution.

What is the resolution of the story?

How does the protagonist change from the beginning to the end of the novel?

Choice Novel

Character Analysis

Directions: Consider how the main character has changed from the beginning to the end of the text. List at least 3 points along with supporting proof (from the text) and an explanation for each.

	POINT: IDEA (How has the character changed?)	PROOF: TEXT EVIDENCE	EXPLANATION
BEGINNING			
MIDDLE			
END			

Adding & Subtracting Decimals

- 1. Write the problem vertically, lining up the decimal points.
- 2. Add additional zeroes at the end, if necessary, to make the numbers have the same number of decimal places.
- 3. Add/subtract as if the numbers are whole numbers
- 4. Bring the decimal point straight down

ex: 14.2 - 7.934

14.200 7.934 6:266

Multiplying Decimals

- 1. Write the problem vertically with the numbers lined up to the right. The decimal points do NOT need to be lined up.
- 2. Ignore the decimals and multiply as if the numbers are whole numbers.
- Count the total number of decimal places in the factors and put a decimal point in the product so that it has that same number of decimal places.

$$\begin{array}{c}
 \times & 6.94 \longrightarrow 2 \text{ decimal places} \\
 \hline
 & 7.8 \longrightarrow 1 \text{ decimal places} \\
 + & 5552 & 3 \text{ decimal places} \\
 \hline
 & 48580 & 54132 & 54132
\end{array}$$

Dividing Decimals

- 1. Write the dividend under the long division symbol and the divisor to the left of it.
- 2. Move the decimal point in the divisor after the number to turn it into a whole number and then move the decimal in the dividend the same number of places. Then bring it up.
- 3. Divide as if the numbers are both whole numbers.
- 4. Annex zeros in the dividend as needed until there is no remainder. If your answer is a repeating decimal, write the answer using bar notation.

Order of Operations

- I. Grouping Symbols (parentheses, brackets, etc.)
- 2. Exponents
- 3. Multiplication & Division (left to right)
- 4. Addition & Subtraction (left to right)

ex:
$$5 + 4(3 - 1.2)$$

$$5 + 4(1.8)$$

$$5 + 7.2$$

Evaluate each expression.		
1. 5.483 + 2.44	2. 224 - 56.73	3. 6.12 - 4.923
	er v ±	property of the state of
4. 24.5 · 3.2	5. 0.23 · 7	6. 3.86 · 9.15
7. 14.8 ÷ 5	8. 46.3 ÷ 1.5	9. 147 ÷ 2.25
	a v vero	
		9 "w.
10. 24.33 - 2.5 - 7	II. 3.9 + 4.5 ²	12. 9.25(18.4 - 2 · 1.2)
	,	

Solve each word problem, showing all work.

13.	Jeff had \$46.18 in his wallet Monday morning. He gave half of his money to his brother. He
	then bought two donuts for \$0.75 each and a cup of coffee for \$2.99. How much money did Jeff have left?

Five friends split a \$65.20 bill at a restaurant. They also each left \$2.75 for the tip. How much money did each person pay in all? 14.

Adding Fractions & Mixed Numbers

I. Find a common denominator for the two fractions.

ex:
$$3\frac{3}{4} + 2\frac{1}{2}$$

2. Add the two numerators and keep the denominator the same.

3. Add the whole numbers.

4. Simplify the answer and/or change improper fraction answers to mixed numbers.

Subtracting Fractions & Mixed Numbers

1. Find a common denominator for the two fractions.

from the whole number and rename the top fraction.

- ex: $5\frac{1}{11} 1\frac{2}{3}$ 2. Subtract the two numerators and keep the denominators the same. If the top numerator is smaller than the bottom numerator, borrow
- 3. Subtract the whole numbers.
- 4. Simplify the answer.

$$5\frac{1}{4} = 5\frac{3}{12} = 4\frac{15}{12}$$

$$-\frac{2}{13} = 1\frac{8}{12} = 1\frac{8}{12}$$

3 12

Multiplying Fractions & Mixed Numbers

1. Turn any mixed numbers and whole numbers into improper fractions.

ex:
$$2\frac{1}{6} \cdot \frac{4}{7}$$

- 2. Cross-simplify if possible.
- 3. Multiply the numerators and then multiply the denominators
- 4. Simplify the answer and/or change improper fraction answers to mixed numbers.

$$\frac{13}{3\%} \cdot \frac{\cancel{4}}{7} = \frac{26}{21} = \boxed{1\frac{5}{21}}$$

Dividing Fractions & Mixed Numbers

- 1. Turn any mixed numbers and whole numbers into improper fractions.
- ex: $7 \div 1\frac{3}{11}$
- 2. Keep the first fraction the same, change the division to multiplication, and flip the second fraction to its reciprocal.

3. Multiply the fractions.

- 4. Simplify the answer and/or change improper fraction answers to mixed numbers.

Evaluate each expression.

Evaluate each expression.	ing the state of t	
15. $\frac{4}{5} + \frac{3}{4}$	$16.4\frac{2}{7} + 2\frac{4}{14}$	17. $8\frac{11}{12} + 9\frac{5}{18}$
	Tar.	1
	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
18. $6-\frac{3}{8}$	19. $8\frac{3}{5} - 2\frac{1}{3}$	20. $4\frac{1}{6} - \frac{8}{9}$
在一种基本子的中心。		
21. 4/25 · 15/16	$22.2\frac{3}{4} \cdot 8$	$23.6\frac{5}{8} \cdot 3\frac{1}{2}$
* 1 * 2 * 1 * 1 * 1 * 1 * 1 * 1 * 1 * 1		e se commente de la commentación de
		20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
$24.\frac{7}{9} \div \frac{2}{3}$	$25.\frac{4}{5} \div 10$	$26.5\frac{2}{3} \div 2\frac{5}{6}$
÷	*	
	15. $\frac{4}{5} + \frac{3}{4}$ 18. $6 - \frac{3}{8}$	15. $\frac{4}{5} + \frac{3}{4}$ 16. $4\frac{2}{7} + 2\frac{4}{14}$ 18. $6 - \frac{3}{8}$ 19. $8\frac{3}{5} - 2\frac{1}{3}$ 21. $\frac{4}{25} \cdot \frac{15}{16}$ 22. $2\frac{3}{4} \cdot 8$ 24. $\frac{7}{4} \div \frac{2}{3}$ 25. $\frac{4}{5} \div 10$

Solve each word problem, showing all work.

27.	Jaimie ran 3 1/2 miles on Monday. She ran half as far on Tuesday as she did on Monday. How far did Jaimie run in all on Monday and Tuesday?	28.	A $5\frac{1}{2}$ quart pot is filled $\frac{2}{3}$ of the way with water. How many more quarts of water can the pot hold?
	,		

Ratios

Ratios are comparisons of two quantities. There are 3 different ways to write ratios:

- Fraction $\left(\frac{A}{B}\right)$

- Colon (A:B)

- Word Form (A to B)

Ratios can be simplified just like fractions.

ex: write the ratio of triangles to circles in 3 ways: \triangle \triangle \triangle

$$\frac{4}{2} = \boxed{\frac{2}{1}}, 2:1, 2 \text{ to } 1$$

Rates & Unit Rates

Rates are ratios that compare quantities measured in different units. A unit rate is a rate with a denominator of I.

To convert a rate to a unit rate:

- 1. Divide the numerator by the denominator
- 2. Either write your answer as a fraction with a label for the both the numerator and denominator OR as one number labeled with the first unit "per" the second unit

ex: express as a unit rate: 125 miles in 4 hours

$$\frac{125 \text{ mi}}{4 \text{ hr}}$$
 $125 \div 4 = 31.25$

31.25 mi or 31.25 miles per hr

Fractions, Decimals, & Percent

To convert a:

ex:
$$0.008 = \frac{8}{1000} = \frac{1}{125}$$

ex:
$$\frac{1}{5} = 5)1.0$$

ex:
$$45\% = \frac{45}{100} = \frac{4}{20}$$

ex:
$$\frac{3}{10} = 0.3 = 30\%$$

Percent of a Number

- 1. Turn the percent to a fraction or decimal.
- 2. Multiply the fraction/decimal by the number.

$$0.18 \cdot 40 = 7.2$$

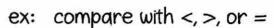
Write each ratio in 3 ways.		11 1 N 11 11	
29. A bank contains 15 pennies and the ratio of nickels to pennies	d 12 nickels. Write 3.	there are	ntains 6 apples and some bananas. It is a total of 10 pieces of fruit, find the apples to bananas.
**			
*	1 #2		
Convert each rate to a unit ra	ate.	1	
31. \$4.25 for 64 fluid ounces	32. 297 miles on 11 g	gallons of gas	33. 124 feet in 10 seconds
Complete the chart by conver	ting each number t	o a percent, fr	raction, and/or decimal.
Fraction No.		eimal L	Percent II.
$\frac{3}{8}$			
35.		0.45	
36.	14-11		72%
37.		0.1	
38. $\frac{3}{200}$	3 dea 5617 d 3 2342 e c		
Find each percent of a numbe	r.	3	
39. 30% of 90	40. 15% of 38	2 7	41. 50% of 86
	, * ·		phin, i v
	₽?		
42. 75% of 160	43. 24% of 35	S 195 A 7	44. 2% of 74
and the second seconds	.		11. 2001 / 4

Comparing Integers

Integers are numbers without fractional parts. They can be positive, negative, or zero. The further right a number is on the number line, the greater it is.

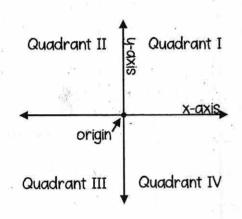


The absolute value of a number is the distance the number is from zero.



-7
$$\boxed{ |-q| \leftarrow \text{ The absolute value} }$$
 of -9 = 9

The Coordinate Plane

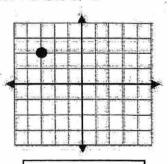


Ordered Pair: (x, y)

To graph a point on the coordinate plane, start at the origin. The first number in the ordered pair (the x-coordinate) tells you how far left (if negative) or right (if positive) to move. The second number (the y-coordinate) tells you how far up (if positive) or down (if negative) to move.

ex: Graph the point (-3, 2) and state the quadrant in which it is located.

Start at the origin, and move LEFT 3 and UP 2

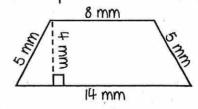


Quadrant II

Perimeter, Area and Volume

- Perimeter of Any Polygon: add all side lengths
- Area of a Rectangle: A = lw
- Area of Parallelogram: A = bh
- Area of Triangle: $A = \frac{1}{2}bh$
- Area of Trapezoid: $A = \frac{1}{2}h(b_1 + b_2)$
- Volume of Rectangular Prism: V = lwh

ex: Find the perimeter & area:



Perimeter: P = 5 + 8 + 5 + 14 = 32 mm

Area: This is a trapezoid, so use the area of a trapezoid

formula: $A = \frac{1}{2}h(b_1 + b_2)$

The bases are the sides that are parallel, and the height is perpendicular to the bases.

$$\rightarrow$$
 A = $\frac{1}{2}$ (4)(8+14) = 44 mm²

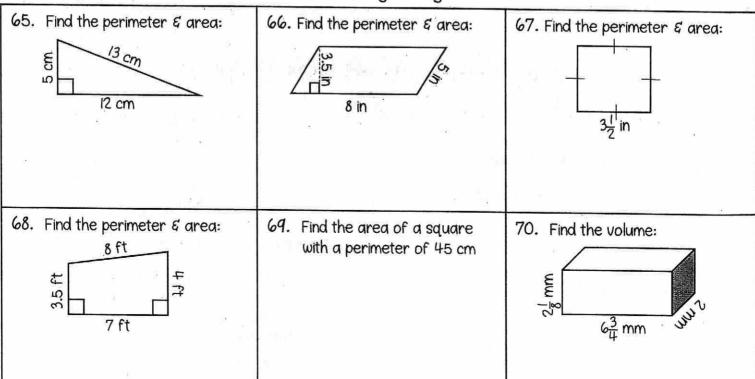
Compare the integers with <, >, or =.

454) -5	46. 2 -2	47. -5 5	487 6	4913 -9
50. -7 \(\cdot -6	5117 -14	52. -3 -2	53. 0 \(\)-6	54. -4 6

Graph and label each of the ordered pairs in the coordinate plane. Then state the quadrant or axis in/on which the point is located.

56. B(0, -3)						(g							
						[-2)-77		12-					Ŧ -
58. D(3, 3)			Walliania Mariania	CORNELIEM)		uuqariinin T	griffs and a state of the state	Summar in					
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60. F(2, 0)	1	-								- 1 (80)			
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62. H(-2, 3)	h					7.74						×	
						3-13, T	9.				= AX-		
64. J(-1, -4)							The section of						
	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)	58. D(3, 3) 60. F(2, 0)	58. D(3, 3) 60. F(2, 0) 62. H(-2, 3)

Find the perimeter, area, and/or volume of the given figure.



Evaluating Algebraic Expressions

1. Substitute the given numbers for the variables

ex: evaluate x + 4y for x = 4 & y = 6

2. Evaluate the expression using the order of operations

One-Step Addition & Subtraction Equations

- Addition Equations: Subtract the number being added to the variable from both sides of the equation

ex:
$$\frac{4 + x = 18}{x = 14}$$

- <u>Subtraction Equations</u>: Add the number being subtracted from

the variable to both sides of the equation

ex:
$$20 = a - 5$$

 $+5$ $+5$ $= a \rightarrow a = 25$

One-Step Multiplication & Division Equations

- <u>Multiplication Equations</u>: Divide both sides of the equation by the number next to the variable

ex:
$$\frac{7b}{7} = \frac{28}{7}$$

 $\frac{b}{7} = \frac{4}{7}$

- <u>Division Equations</u>: Multiply both sides of the equation by the number under the variable

ex:
$$5 \cdot \frac{n}{5} = 10 \cdot 5$$

Problem Solving

- I. Read the problem. Identify the question that is being asked and the key information in the problem.
- 2. Plan how you are going to solve the problem and estimate the answer.
- 3. Solve the problem using the strategy of your choice.
- 4. Check your answer. Make sure your answer is reasonable and compare it to your estimate. Label your answer with appropriate units.

Evaluate each expression for a = 5, b = 12, c = 10, $\epsilon d = 2$

71. 2b — a	72. d(ab – c)	73. $3 + \frac{b}{d}$
		₩ W 11
74. 4a b+ 4d	75. 2a ² – c	76. b-c+d
	* * * * * * * * * * * * * * * * * * *	

Solve each one-step eq $77. g + 3 = 17$	uation. 78. r - 6 = 7	70 (6 19	
· · · · · · · · · · · · · · · · · · ·	/o. r – v = /.	79. 6b = 18	80. $\frac{h}{q} = 3$
265 T	e I		
1. $5 = f - 8$	82. 48 = 12b	83. a + 24 = 83	84. 17 + x = 23
* ·	1	3 2	3.1. 1. X = 23
	projection.	* *	4+ 54
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m	2/ 2/2 2 2 2		
5. $10 = \frac{m}{5}$	86. $86.5 = f - 7.63$	$87. \frac{n}{6} = 11$	88. $\frac{3}{4}$ h = 12
	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Solve each word problem using the method or g	our choice.
89. A fencing company charges \$22 per foot to install a wood fence. How much will it cost to install a wood fence around a rectangular pool area that is 20 feet wide and 38 feet long?	90. A 6 inch-tall plant grew 34 of an inch one week and twice as much the following week. How tall is the plant now?
	¥
* •	*
* *	
91. Jack can read 45 pages of his book in one and a half hours. At that rate, how long will it take him to read the entire 300-page book?	92. Brian ordered 3 large cheese pizzas and a salad. The salad cost \$4.95. If he spent a total of \$47.60 including the \$5 tip, how much did each pizza cost? (Assume there is no tax).
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93. A cookie recipe calls for $3\frac{1}{4}$ cups of flour. The recipe makes 3 dozen cookies. How much four is needed to make 144 cookies?	94. Ella has a box of chocolate candies. She gives $\frac{1}{3}$ of the candies to her sister, 4 to her brother, and she eats the remaining 12 candies. How many chocolate candies were in the box originally?
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P.	
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	Solve each word problem using the method of your choice. 95. 20% of the 520 students in Wendover Middle 96. A piggy bank contains some dimes and nickels.		
20	9 5.	20% of the 520 students in Wendover Middle School were involved in school sports. Of those students, 12.5% were on the wrestling team. How many students were on the wrestling team?	96. A piggy bank contains some dimes and nickels. There are 8 more dimes than nickels in the bank. There is a total of \$1.40. How many of each type of coin are in the bank?
-		en e	N. C.
		ž	
			5
	9 7.	An elevator in a tall building goes up 7 floors, then down 9 floors, down 4 floors, up 8 floors, and down 2 floors. Now it is on floor 14. On what floor did the elevator start?	48. Jenna danced for 3 hours on Sunday, 2 hours on Monday and Tuesday, I hour on Thursday, 1.5 hours on Friday, and 2 hours on Saturday. She did not dance at all on Wednesday. What is the average number of hours she danced each day? Round your answer to the nearest tenth of an hour.
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	99.	Jackie makes \$15.25/hour babysitting. George makes \$18.50/hour mowing the lawn. If Jackie babysits for 4 hours and George mows lawns for 3 hours, who makes more money? How much more does he/she make?	100. A box of 8 crayons costs \$0.96. How much does each crayon cost? At that unit price, how much would a box of 30 crayons cost?
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77			