Summer Packet: Students Entering 6th Grade

- **Goal:** The goal of the summer packet is to have students retain what they have learned throughout the 2017-2018 school year.
- **Process:** The BEST way to use this packet would be to spread out the worksheets maybe one a week so that it is completed throughout the summer, instead of just "crammed" into a few weeks.
- **Expectation:** The expectation of summer work is for it to be completed in its entirety and for it to be turned on the **first day of school**. *Please see the back of this page for detailed instructions on how to prepare the packet to be turned in*.

This summer packet has two mandatory parts, with an optional 3rd part.

Part 1: Written Assignment "Math in the Real-World"

- 1. Select three adults to interview (only one of the three adults can be a parent)
- 2. Ask them the following questions:
 - a. In what ways do you use math at your job, or in your day-to-day life?
 - b. How regularly do you use math / math concepts?
- 3. **Type** at least one paragraph that discusses the responses of the three adults while identifying what branch(es) of math is used by each interviewed adult.
 - a. Branches of Math: algebra, analysis, geometry, logic, number theory...etc. Google "Branches of Math" if you need more clarification.
- 4. **Type** at least one paragraph about how you may use math when you are an adult.

Part 2: Worksheets

- 1. Each worksheet included in the packet needs to be completed, in its entirety, **with all work shown.**
- 2. If there is not enough room on the worksheet to show your work, please use filler paper.
 - a. Each piece of filler paper used needs to be labeled with the worksheet number and title
- 3. Final answers should be written on the worksheet space provided, even if filler is used.
- 4. Final answers should also be boxed or circled on both the filler paper and the worksheets

Part 3: Extra Practice (Optional)

If you're looking for a way to sharpen your mathematical skills beyond what is required, "thatquiz.org" would be a great resource to use.

Suggestion:

- 1. Identify a skill that needs a bit of practice (ex: adding and subtracting integers)
- 2. Create a quiz that will help you practice those skills
- 3. Keep track of how many questions you answer correctly each time you take it.

Preparation for Turn In:

- 1. Please place everything in a three-prong folder (NOT a three ringed binder).
- 2. Use this order:
 - a. Part 1: Written Assignment
 - b. Part 2: Worksheets and Work
 - i. Worksheet 1
 - ii. Worksheet 2
 - iii. Any filler used for Worksheets 1 and 2
 - iv. Worksheet 3
 - v. Worksheet 4
 - vi. Any filler used for Worksheets 3 and 4
 - vii. Worksheet 5
 - viii. Worksheet 6
 - ix. Any filler used for Worksheets 5 and 6
 - x. Worksheet 7
 - xi. Worksheet 8
 - xii. Any filler used for Worksheets 7 and 8
 - c. (Optional) Part 3: Extra Practice
- 3. Name and Grade ENTERING INTO needs to be written on the outside front cover as well as the inside front cover
- 4. This instructional page can be detached and placed in the front pocket of the folder for an easy reference.
- 5. The summer packet is due on the FIRST DAY OF SCHOOL.

If you get stuck on a concept, use google...it's a GREAT RESOURCE!

- Some options / places that may help you:
 - <u>https://www.khanacademy.org/</u>
 - <u>https://www.youtube.com/user/learnmathtutorials</u>
 - <u>http://patrickjmt.com/</u>
 - <u>http://student-tutor.com/blog/top-10-math-websites/</u>



Three prong folder

Worksheet 1: Number Sense

Part 1: Complete the number sentence by using >, <, or = to compare the numbers.

1.		2.		3.		4.	
4.863	4.868	8.752	8.849	3.011	3.001	1.980	1.98

Part 2: Round each number to the place value of the underlined digit.

5.	3 <u>8</u> 1,574	6. 10. <u>2</u> 84	7. <u>1</u> 82,601,597	8. 3 <u>6</u> .91
9.	659, <u>0</u> 14	10. 81.9 <u>8</u> 5	11. 7 <u>8</u> 4,331,562	12. 5.5 <u>4</u> 8

Part 3: Order the numbers from least to greatest

13.				14.			
	368,852	352,036	381,957		5,603,487	5,630,487	5,067,487
		,			-,,	-,,	-,,

Part 4: Write each number in standard form

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15. 10,000,000,000 + 30,000,000 + 600,000 + 20,000 + 500 + 3
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16. Six hundred forty-eight billion, one hundred twelve million, thirty-three thousand, nine hundred nine

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17.	18.	19.	20.
5.6 <u>3</u>	6.21 <u>8</u>	2. <u>3</u> 49	4.0 <u>6</u> 7

Part 5: Identify the place value of the underlined digit

Worksheet 2: Adding, Subtracting, Multiplying, and Dividing Review

Find the sum, difference, product, or 1. 13,659 – 7,948	quotient. Show ALL work. If there' 2. 6,542 + 9,963	s not enough room, use filler paper. 3. 70,983 – 35,494
4. 514,819 + 177,891	5. 2 × 66 × 50	6. 25 × 9 × 4
7. 14 × 88	8. 45 × 712	9. 362 × 22
10. 661 ÷ 3	11. 89÷9	12. 1,546 ÷ 2
13. 430 ÷ 42	14. 14,080 ÷ 28	15. 7,531 ÷ 25

Worksheet 3: Adding and Subtracting Decimals

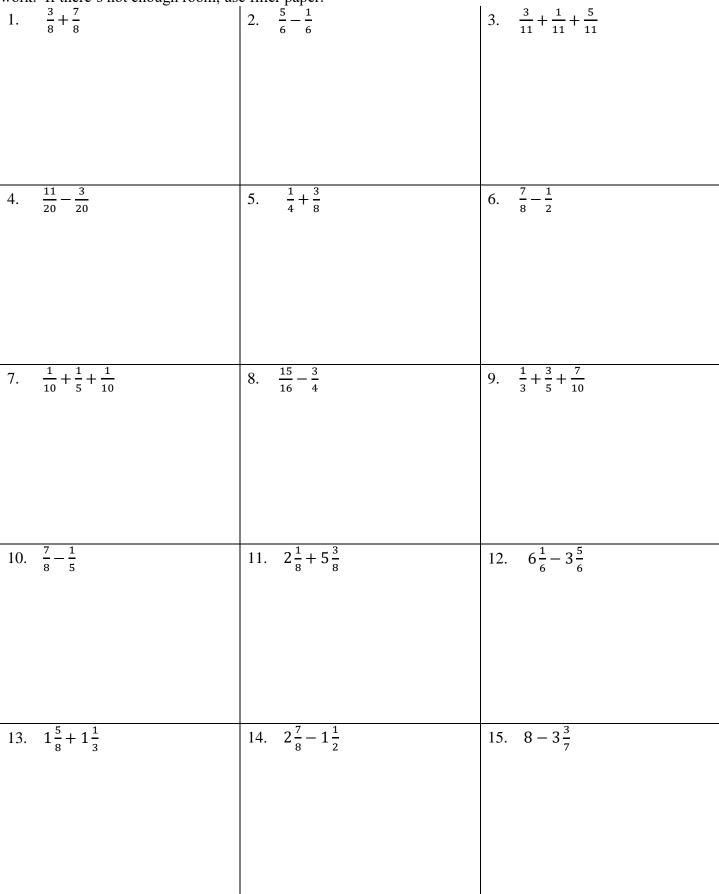
Find the sum or difference. Show AI 1. 9.8 + 2.563	L work. If there's not enough room, 2. 0.7 + 0.685	use filler paper. 3. 14.55 + 8.92
4. 33.42 + 17.833	5. 1.19 + 15.86	6. 76.75 + 7.675
7. 0.19 + 0.999	8. 92.5 + 8.825	9. 3.8 – 2.63
10. 4.83 – 2.165	11. 22.31 – 8.203	12. 6.2 – 0.5
13. 47.51 – 33.415	14. 0.9 – 0.778	15. 10.0 - 4.32

Worksheet 4: Multiplying and Dividing Decimals

Find the product or quotient. Show A 1. 5.2×8	LL work. If there's not enough room $2.$ 19.5 × 2	, use filler paper. 3. 10×5.411
1. 5.2 × 0	2. 19.5 × 2	5. 10 × 5.411
4. 5.6×0.8	5. 2.5×0.34	6. 4.02 × 1.8
7. 73.5 ÷ 10	8. 2.37 ÷ 30	9. 35.4 ÷ 12
10. $8.67 \div 17$	11. 83.2 ÷ 1,000	12. 83.58 ÷ 42
	l	l

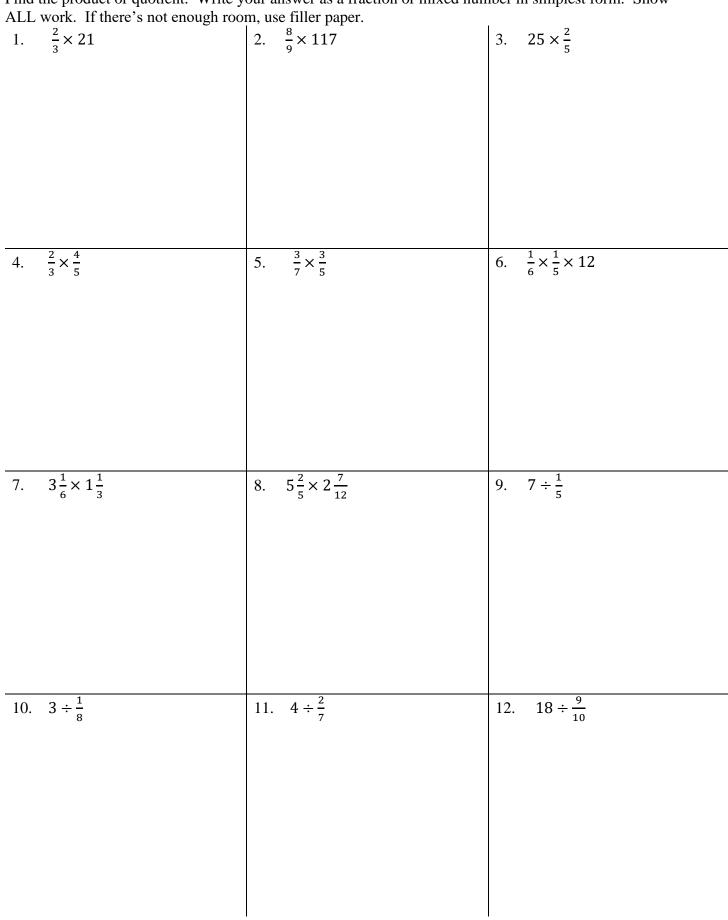
Worksheet 5: Adding and Subtracting Fractions

Find the sum or difference. Write your answer as a fraction or mixed number in simplest form. Show ALL work. If there's not enough room, use filler paper.



Worksheet 6: Multiplying and Dividing Fractions

Find the product or quotient. Write your answer as a fraction or mixed number in simplest form. Show



Worksheet 7: Order of Operations

Use the order of operations to evaluate each expression. Show ALL work, step-by-step and line-by-line. If there's not enough room, use filler paper.

there's not enough room, use filler pa		
1. (4 + 5) × 3	2. $9 - 1 + 2 \div 2$	3. $12 \div 6 \times 3 - 5$
4. 2 + (8 – 5) × 6	5. $10 \div (11 - 9) + 9$	6. $3 \times (1+3) + 8 \div 4$
7. 50 – 10 – 50 ÷ 10 + 5	8. $8 \times (5-1) \div (6-2)$	9. 12 + 8 × 2 + 6
10. (40 + 10) + 10 ÷ 2	11. 100 + 2 × 50 + 100	12. $50 + 50 \times 2 - 50 \div 50$
$13. 7 \times 3 - 6 \times 1 + 2 \times 5$	14. $8 + (7 - 5) \times 9$	15. (4 + 3) + 24 ÷ 6

Worksheet 8: Solving Equations

Solve each equation using mental math.

Joine each required using instant rule:
2.
$$9v = 45$$
3. $60 - s = 40$

4. $f + 15 = 27$
5. $56 + d = 8$
6. $11 \times b = 11$

7. $62 + w = 78$
8. $q - 14 = 30$
9. $48 - b = 2$

10. $5 \times e = 110$
11. $64 + k = 8$
12. $9s = 72$

13. $r - 15 = 30$
14. $g + 8 = 12$
15. $48 + f = 6$