Grade 7 Summer Review Packet

<u>Please Read Carefully</u> so you know what is expected of you. Your summer packet is due on the first day of school, and you will be given a test on the material contained in the summer packet during a 75-minute class the week of September 3rd, 2019 (first week of school). The summer packet will count for 10% and the test will count for 90% of your grade for the summer review.

Enclosed is a set of objectives on material that you should already know but that you might need to review. Along with the objectives is a list of Khan Academy videos with examples and explanations on each objective. Each objective has a set of problems for you to complete. You are expected to complete <u>all the problems</u>. Each assignment should be on a separate sheet of paper. Show all work in a neat and organized manner, make sure to include the original problem. <u>Please circle or highlight your answers</u>. An answer key to the odd numbered problems is attached. Be sure to check your odd numbered problem answers with the answer key. <u>Be sure to show all work for each problem</u>.

The following material was covered in Grade 6. This material will not be covered in Math 7/Pre-Algebra 7. The assumption is that the material is part of your knowledge base. As a review, you are to complete the attached problems. If you have trouble completing any part of the assignment you are expected to seek help. <u>Coolmath.com</u>; <u>Khan Academy</u> or <u>YouTube</u> can be used as a reference. Please do not wait until the last minute to complete the assignment.

To watch the videos, click on the link and it will open in your web browser. Good Luck!

Assignment 1: Operations with Whole Numbers

Video: <u>Multi-Digit Addition</u> (Math Antics) Video: <u>Multi-Digit Subtraction</u> (Math Antics) Video: <u>Multi-Digit Multiplication Pt. 1</u> (Math Antics) Video: <u>Multi-Digit Multiplication Pt. 2</u> (Math Antics) Video: <u>Long Division</u> (Math Antics)

Find the sum.

1. 608	2 . 932	3 . 4 72	4 . 789
+429	+ 4 4 0	+ 3 8 1	+ 3 2 6
5 . 2 89	6. 591	7. 685	8. 902
+889	+ 4 2 5	+ 2 7 4	+ 5 0 5

Find the difference.

1. 933	2 . 4 10	^{3.} 704	4 . 7 2 0
- 5 2 4	-330	- 3 7 0	-663
5. 742	6 . 355	7. 808	⁸ . 452
-724	- 27	- 4 8 1	-384

Find the product.

$\begin{array}{ccc} 1. & 569 \\ \times & 17 \end{array}$	$2. 285 \times 15$	$3. \qquad 351 \\ \times 30$	4. 910 × 21
$5. 251 \times 21$	6. 857 × 10	7. 64 ×16	8. 284 × 11

Find the quotient. Leave remainders.

^{1.} 50)4782	2. 3)2697	^{3.} 17)3752	^{4.} 38)682
5. 9)2767	6. 7)958	7. 33)2095	^{8.} 34)2109

Assignment 2: Operations with Decimals

Video: <u>Decimal Place Value</u> (Math Antics) Video: <u>Decimal Arithmetic</u> (Math Antics)

Find the sum. (top row 1-5, bottom row 6-10)

406.6508	9.1130	0.2935	76.04	3249.941
<u>+ 31.4</u>	<u>+ 211.9489</u>	<u>+ 0.64</u>	<u>+ 1565.84</u>	<u>+ 9.3</u>
40.8	45.40	316.357	0.7	116.4
<u>+ 107.5793</u>	<u>+ 33.5</u>	<u>+ 0.9</u>	<u>+ 5202.7</u>	<u>+ 0.354</u>

Find the difference. (top row 1-5, bottom row 6-10)

9.442	94.7770	93.2967	51.5	29.55
-0.4	<u>-8.2318</u>	<u>-2.3169</u>	<u>-9.2</u>	<u>-2.175</u>
0.15 	64.31 -27.24	65.6 <u>-0.9833</u>	72.9392 _5.16	5.1 -0.92

Find the product. (top row 1-5, bottom row 6-10)

$\frac{7.91}{\times 0.19}$	$\frac{26.3}{\times 7.8}$	3.07×19	$\frac{63.2}{\times 8.5}$	$\frac{0.394}{\times 70}$
55.8	596	940	203	0.707
\times 9.4	$\times 3.6$	\times 8.2	\times 42	\times 0.97

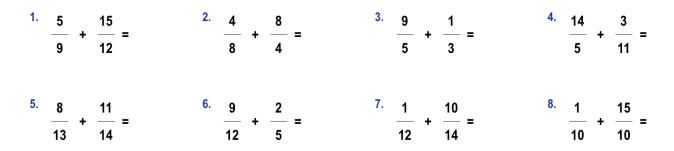
Find the quotient. (top row 1-4, bottom row 5-8)

9) 6.5	6) 9.29	5) 5.8492	2) 0.5
0.58) 0.5568	0.2)0.12	0.7) 0.1995	1.5) 1.2

Assignment 3: Operations with Fractions

Video: <u>Simplifying Fractions</u> (Math Antics) Video: <u>Adding and Subtracting Fractions</u> (Math Antics) Video: <u>Multiplying Fractions</u> (Math Antics) Video: <u>Dividing Fractions</u> (Math Antics) Video: <u>Mixed Numbers</u> (Math Antics)

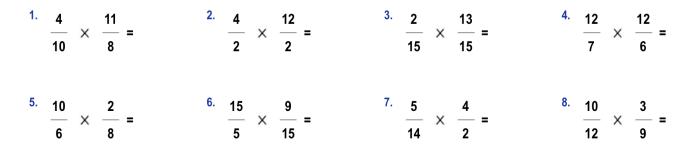
Find the sum. Write your answer in simplest form.



Find the difference. Write your answer in simplest form.

1.	10 _	1	^{2.} 6	2 =	$\frac{3}{4}$ $\frac{14}{-}$ $\frac{5}{-}$ =	$\frac{4}{2}$ $\frac{14}{2}$ - $\frac{2}{2}$ =
	4		14		2 6	5 4
5.	12 _	8	^{6.} 13	9 =	$\frac{7}{11}$ $ \frac{11}{11}$ =	^{8.} <u>5</u> <u>-</u> <u>3</u> =
	4		4		$\frac{-}{5}$ $ \frac{-}{8}$ =	$\frac{-}{9} - \frac{-}{13} =$

Find the product. Write your answer in simplest form. (HINT: cross-cancel)



Find the quotient. Write your answer in simplest form. (HINT: Keep, Change, Flip, then cross-cancel)

1. <u>8</u> ÷	- =	$\frac{2.}{14} \frac{7}{1} \frac{11}{7} =$	$\frac{3}{2} + \frac{5}{2} + \frac{9}{11} =$	$\frac{4}{9} + \frac{15}{5} =$
$\frac{5.}{15} \frac{7}{\cdot}$	- =	$\frac{6}{9} + \frac{7}{2} =$	$\frac{7}{6} + \frac{4}{5} + \frac{5}{15} =$	$\frac{8.}{15} \div \frac{13}{6} =$

Assignment 4: Conversions

0.25 =

Video: <u>Convert Any Fraction to a Decimal</u> (Math Antics)

Convert the following fractions to decimals. Some may be repeating. (left column 1-6, right column 7-12)

$\frac{4}{6} =$	$rac{1}{8} =$
$\frac{11}{12} =$	$rac{14}{20} =$
$\frac{1}{3} =$	$\frac{2}{3} =$
$\frac{2}{5} =$	$rac{4}{5} =$
$\frac{8}{11} =$	$rac{1}{4} =$
$\frac{5}{12} =$	$\frac{7}{9} =$

Convert the following decimals to fractions. Write your answer in simplest form. (left column 1-6, right column 7-12)

0.8 =

0.35 =	0.125 =
0.6 =	0.625 =
0.3 =	0.85 =
0.45 =	0.375 =
0.4 =	0.7 =

ANSWER KEY (ODDS ONLY)

Assignment 1	Assignment 3
Addition	Addition
1. 1037	1. 1 and 29/65
3. 853	3. 2 and 2/15
5. 1178	5. 1 and 73/182
7.959	7. 67/84
Subtraction	Subtraction
1.409	1.2
3. 334	3. 6 and 1/6
5. 18	5.1
7. 327	7. 33/40
Multiplication	Multiplication
1.9673	1. 11/20
3. 10,530	3. 26/225
5. 5271	5. 5/12
7. 1024	7. 5/7
Division	Division
1. 95 r. 32	1. 2 and 4/9
3. 220 r. 12	3. 3 and 1/18
5. 307 r. 4	5. 77/135
7. 63 r. 16	7.2
Assignment 2	Assignment 4
Addition	Fraction to Decimal
1. 438.0508	1. 0.6666
3. 0.9335	3. 0.3333
5. 3259.241	5. 0.727272
7. 78.90	7. 0.125
9. 5203.4	9. 0.6666
	11. 0.25
Subtraction	
1. 9.042	Decimal to Fraction
3. 90.9798	1. 7/20
5. 27.375	3. 3/10
7. 37.07	5. 2/5
9. 67.7792	7. 1/8
	9. 17/20
Multiplication	11. 7/10
1. 1.5029	
3. 58.33	
5. 27.580	
7. 2145.6	
9. 8526	
5.0520	

Division	
1. 0.7222	
3. 1.16984	
5. 0.96	
7. 0.285	