Name	Date: Class:					
Rising 7 <sup>th</sup> Grade Summer <u>Directions:</u> Using what you learned in 6 <sup>th</sup> grade math, so provided, and place your answer on the line. If you need be sure to organize it! Read each question carefully! <b>NO</b>	d more space to do your work, attach extra paper, but					
UNIT 1: PL	ACE VALUE					
1. What is the value of the underlined digit? 2,1 <u>9</u> 3,327	2. Order the numbers from <b>least to greatest.</b> 0.075, 0.049, 0.07, 0.05					
3. Write 3,059,172 in <b>word form</b> .	4. Write nine hundred seventeen thousand, one hundred sixty-five in <b>standard form</b> .					
5. Use >, =, or < to complete the statement.  a) 0.23 0.12  b) 7.60 7.6	6. Lupe is a helper in the school library. She wants to arrange the books on her cart in order from <b>greatest to least</b> book number. If the numbers on the books are 337.43, 338.2, 338.41, and 338.17, in what order should she arrange them?					
7. Write using an <b>exponent</b> . Then give its <b>value</b> .  5 • 5 • 5 • 5  = = =	8. Write 4 <sup>3</sup> as a product (without exponents). Then give its <b>value</b> .  =					
9. What is the prime factorization of 125? If there is a repeated factor, use exponents.	10. What is the prime factorization of 36? If there is a repeated factor, use exponents.					
11. Write using an <b>exponent</b> . 2 • 2 • 2 =	12. Write 4,385 in expanded form using powers of 10.					
13. Write in standard form: 50,000 + 5,000 + 900 + 70 + 1	14. Write in standard form: 300,000 + 6,000 + 600 + 10 + 3					

15. In 2003, the average attendance per game for the Florida Marlins was about $(1 \times 10^4) + (1 \times 10^3) + (4 \times 10^2)$ . What is this number in <b>standard form</b> ?	16. What is the value of the digit 3 in the population of Maryland? Give your answer in <b>short word form</b> .					
=	MARYLAND: Population 5,300,000 SHORT WORD FORM:					
17. What is the value of the digit 7 in 41,728?	18. Write 12.49 in <b>expanded form</b> .					
19. Write sixteen thousandths as a decimal.	<ul> <li>20. Write 80,000,000 + 90,000 + 6,000 + 500 in standard form and in words.</li> <li>a) Standard form:</li> </ul>					
	b) Word form:					
21. Jonas' father talks about releasing one of the identical twins. He selects the baby with the lowest birth weight to be released. Compare the following birth weights. Write <,>, or =.	<ul><li>22. Write two thousand, one hundred eighteen and sixteen hundredths in:</li><li>a) standard notation:</li></ul>					
a.) 7.56 lbs 7.6 lbs						
b.) 5.775 lbs 5.78 lbs	b) B) expanded notation (using multiplication):					
c.) 6.1 lbs 6.10lbs	c) expanded notation (using powers):					
UNIT 2: DECIMALS & SCIENTIFIC NOTATION						
23. <b>Find the sum:</b> 561 + 1318	24. Find the sum: 2681 + 2083 + 539					

=\_

25. Find the sum:	26. Find the sum:				
8.92 + 12.894	0.8 + 8.4 + 11.2				
0.52 1 22.05 2	0.0 1 0.1 1 22.2				
=	=				
27. Find the sum:	28. Find the difference:				
(26.9 + 8.3) + 5.7	6264 - 397				
·					
=	=				
29. Find the difference:	30. Find the difference:				
7355 - 3070	6.043 - 4.496				
_	_				
=	=				
2. 2. 1. 1. 11. 2. 02. 52.					
31. Sam ordered a wallet for \$21.52, a sweater for	32. One of the events at the circus was Gabriella the				
\$35.07, and a watch for \$97.29 from a mail-order	Human Cannonball. On Saturday she did four shows.				
catalog. He added \$20.24 for tax, shipping, and	Her distances measured 7.09 meters, 18.87 meters,				
handling. What was the total cost of Sam's order?	18.37 meters, and 19.93 meters. What was the total				
	distance Gabriella flew that day?				
	·				
= <u></u>	=				
33. Manny has \$59.58 in his savings account. He	34. Find the value of the expression:				
takes out \$31.27. How much money does he have left	91.09 - 91.09 + 53.2				
in the account?					
= <u></u>	=				
35. Jetta had \$135.35 in her account at the beginning	36. Pork chops cost \$2.50 a pound at the market. Mary				
of the month. During the month, she wrote checks for	buys 5.3 pounds. Find the cost.				
	buys 5.5 pounds. I ma the cost.				
\$97.82, \$108.30, and \$70. She also withdrew \$45 at					
an ATM machine and deposited \$100 from her					
paycheck three times. How much was in her account					
at the beginning of the month?					
=	Cost =				

37. Find the product:	38. Find the product:
	246 • 5
0.4(0.007)	240 • 5
=	=
39. Find the product:	40. Divide:
5.2 • 6.1	6.6 ÷ 2
5.2 - 0.1	0.0 . 2
=	=
41. Divide:	42. Divide:
$9.9 \div 0.1$	$37,788 \div 47$
=	=
43. There are 180 pages in the book. If you read 20	44. Evaluate: 9.687 + 8.295
pages a day, how long will it take you to read the	
book?	
	=
45. Evaluate: 1.943 – 0.76	46. Divide 44.45 by 3.5
=	=
4	0
47. Evaluate: $\frac{4}{0}$	48. Evaluate: $\frac{0}{3}$
_	_
=	=
	<u>KPRESSIONS</u>
49. Find the solution of the equation from the given	50. State whether the equation is <i>true</i> , <i>false</i> , or an

numbers.	open sentence
x + 8 = 6:12,21,14  or  -2	$12m \bullet 8 = 96$
a) -2 b) 14 c) 12 d) 21	a) true b)false c)open sentence

51. State whether the equation is <i>true</i> , <i>false</i> , or an	52. State whether the equation is <i>true</i> , <i>false</i> , or an					
open sentence $12 \bullet 6 = 72$	open sentence $12 = 9 + 5$					
a) open sentence b) false c) true	a) open sentence b) false c) true					
53. Is the given number a solution to the equation?	54. Is the given number a solution to the equation?					
18 - q = 12; 4	b = 2b - 10; 10					
a) no b) yes	a) no b) yes					
55. Is the given number a solution of the equation?	56. Solve the equation mentally:					
6a = a + 25; 3	$\frac{k}{4} = 3$					
a) yes b)no						
	a)-1 b) $\frac{3}{4}$ c) $\frac{4}{3}$ d)12					
57. Write a numerical expression for the verbal	58. Write an equation. Is the given value a					
phrase: the quotient of twenty-one and seven	solution? A farmer sees 56 of his cows out of the barn. He					
	knows that he has 83 cows altogether. Let c represent					
a) $7 \div 21$ b) $7 - 21$	the number of cows still in the barn. Are there 33 cows still in the barn?					
c)21 - 7 d)21 ÷ 7	cows still in the outil.					
	a) $56 + 83 = c$ ; $no$ b) $56 + c = 83$ ; $no$					
	c)83 + $c$ = 56; $no$ d) $c$ + 33 = 56; $yes$					
59. Solve the equation:	60. Solve the equation:					
g + 7 = 9	9x = 54					
a)-2 b)16 c)2 d)63	a)45 b)63 c)6 d)486					
61. Use the order of operations to simplify each of	the following expressions.					
a) $5 - 10 \cdot 2 =$ b) $22 + 24 \div (10 \div$	- 5) - 13 =					
d) $3 \bullet (7+6) + 5 =$ e) $[3 \bullet (10-7)] +$	f) $12^2 - (4 + 9^2) - 13 =$					
62. Evaluate each algebraic expression for the giv	en value(s) of the variable(s).					
a) $4m - 4$ , $for m = 8$						
b) $54 + 10w$ , for $w = 7$						
c) y - x if y = 4 and x = 3						
d) $d \div 4$ , for $d = 16$						
e) $\frac{nz}{n+z}$ , for $n = 10$ and $z = 6$						

63. The cost of a school banquet is $$50 + 25n$ , where $n$ is the number of people attending. What is the cost for 87 people?	64. An apartment costs \$450 a month to rent, plus a \$500 security deposit. Write <b>an expression</b> for the cost of renting for <b>m</b> months.
65. A cellular phone company charges \$32 a month plus a \$25 activation fee. <b>a.</b> Write an expression for the total cost for <i>m</i> months of service. = <b>b.</b> Evaluate your expression for 7 months. =	<ul> <li>66. Your job pays \$5 per hour.</li> <li>a) Write a variable expression for your pay in dollars for working h hours. =</li> <li>b) What is your pay if you work 40 hours? =</li> </ul>
<u>UNIT 4: P</u>	ROPERTIES
67. Name the property shown. $5 + 0 = 5$	68. Name the property shown. 5 • 7 = 7 • 5
a) Identity Property of Multiplication b) Associative Property of Multiplication c) Commutative Property of Multiplication d) Identity Property of Addition	a) Identity Property of Multiplication b) Associative Property of Multiplication c) Commutative Property of Multiplication d) Identity Property of Addition
69. Name the property shown. (8 • 5) • 11 = 8 • (5 • 11)	70. Name the property shown.  11 • 15 = 15 • 11

a) Identity Property of Multiplication	a) Identity Property of Multiplication					
b) Associative Property of Multiplication c) Commutative Property of	b) Associative Property of Multiplication					
Multiplication	c) Commutative Property of Multiplication					
d) Identity Property of Addition	·					
a) lacitately 1 roperty of Addition	d) Identity Property of Addition					
69. Name the property shown.	70. Name the property shown.					
$(8 \bullet 5) \bullet 11 = 8 \bullet (5 \bullet 11)$	11 • 15 = 15 • 11					
a) Commutative Property of Multiplication	a) Commutative Property of Multiplication					
b) Commutative Property of Addition	b) Associative Property of Multiplication					
c) Identity Property of Multiplication	c) Multiplicative Property of Zero					
d) Associative Property of Multiplication	d) Multiplicative Identity					
74 N	70 N					
71. Name the property shown. $30 \cdot 0 \cdot 17 = 0$	72. Name the property shown. $45 \cdot 1 = 45$					
30 • 0 • 17 = 0	45 • 1 = 45					
a) Commutative Property of Multiplication	a) Commutative Property of Multiplication					
b) Associative Property of Multiplication	b) Associative Property of Multiplication					
c) Multiplicative Property of Zero	c) Multiplicative Property of Zero					
d) Multiplicative Identity	d) Multiplicative Identity					
73. Name the property shown.	74. Name the property shown.					
24 + 5 = 5 + 24	31 + (4 + 17) = (31 + 4) + 17					
24 + 3 - 3 + 24	31 + (4 + 17) = (31 + 4) + 17					
a) Commutative Property of Addition	a) Commutative Property of Addition					
b) Associative Property of Addition	b) Associative Property of Addition					
c) Substitution Property of Equality	c) Substitution Property of Equality					
d) Additive Property	d) Additive Property					

75. Use the Distributive Property to multiply.	76. Use the Distributive Property to multiply. Show
Show your work!	your work!
5(b+8)	5(2t-5)
3(0 1 0)	3(21 3)
=	=
0	
77. What is the multiplicative inverse of $\frac{8}{19}$ ?	78. What is the additive inverse of 7?
19	
=	
	=
79. What is the multiplicative inverse of 5?	80. Simplify the expression below. Show your work!
	5x-2x-7
	JA ZA 7
=	=
	IBER THEORY
<b>81. Find the GCF of</b> 143, & 69	82. Find the GCF of 75, 26, & 208
GCF =	GCF =
<del></del>	
83. Write the fraction in simplest form:	84. Write the fraction in simplest form:
18	162
$\frac{1}{26}$	$\frac{1}{270}$
20	270
_	=
2	OC Cond. in model in the condition of th
85. Write $5\frac{2}{3}$ as an improper fraction.	86. Sarah is making her own Halloween costume. The
· ·	costume requires $1\frac{1}{8}$ yards of materials. Write the
	number of yards needed for Sarah's Halloween
	costume as an improper fraction.
	* *
<del></del>	
07 White the impressed freetier	00 Write the impressed freetier
87. Write the improper fraction as a mixed	88. Write the improper fraction as a mixed
number in simplest form.	number in simplest form.
63	$\frac{81}{1}$
8	6
<b>=</b>	=

89. Find the LCM of 3, 11, 15.	90. Find the LCM of 5, 20.
LCM =	LCM =
91. A video game has three villains who appear on screen at different intervals. One villain appears every	92. Compare the pair of numbers. Use <, =, or >.
4 seconds, a second villain appears every 8 seconds, and a third villain appears every 20 seconds. How much time passes between occasions when all three	a) $\frac{3}{4} - \frac{11}{60}$
villains appear at the same time?	b) $3\frac{13}{42}$ $3\frac{1}{3}$
=	c) $\frac{6}{7} - \frac{12}{14}$
93. Order the numbers from least to greatest.	94. Find the prime factorization of the number.
a) $\frac{1}{3}$ , $\frac{17}{24}$ , $\frac{1}{2}$	a) 336
b) $3\frac{4}{5}$ , $3\frac{9}{40}$ , $3\frac{3}{4}$	b) 2160
95. Convert the mixed number to an improper fraction: $3\frac{1}{4}$	96. Simplify $\frac{10}{25}$
	ON OPERATIONS
97. Find each sum. Write in simplest form.	
a) $\frac{3}{7} + \frac{2}{7} =$ b) $\frac{9}{17} + \frac{15}{17} =$	c) $\frac{4}{9} + \frac{8}{9} =$ d) $\frac{1}{2} + \frac{3}{8} =$

a) 
$$\frac{3}{7} + \frac{2}{7} =$$

$$b)\frac{9}{17} + \frac{15}{17} =$$

c) 
$$\frac{4}{9} + \frac{8}{9} =$$
\_\_\_\_\_

$$d)\frac{1}{2} + \frac{3}{8} =$$

$$f)\frac{1}{8} + \frac{1}{12} = \underline{\hspace{1cm}}$$

g)
$$6\frac{1}{4} + 7\frac{2}{3} =$$

h) 
$$2\frac{1}{10} + 4\frac{3}{5} =$$

i)
$$3\frac{2}{7} + 2\frac{3}{14} + 4\frac{3}{7} =$$
 j) $\frac{1}{4} + \frac{3}{8} =$  k) $2\frac{1}{4} + 3\frac{4}{5} + 5 =$  l) $\frac{1}{6} + \frac{2}{5} + \frac{7}{30} =$ 

$$j)\frac{1}{4} + \frac{3}{8} =$$

$$k)2\frac{1}{4} + 3\frac{4}{5} + 5 =$$

$$\left(1\right)^{\frac{1}{6}} + \frac{2}{5} + \frac{7}{30} = \underline{\phantom{0}}$$

98. Find each difference. Write in simplest form.

a) 
$$\frac{9}{14} - \frac{5}{14} =$$
 b)  $\frac{3}{8} - \frac{1}{4} =$  c)  $\frac{5}{6} - \frac{3}{5} =$  d)  $\frac{17}{18} - \frac{11}{18} =$ 

$$b)\frac{3}{8} - \frac{1}{4} =$$

c) 
$$\frac{5}{6} - \frac{3}{5} = \underline{\hspace{1cm}}$$

$$d)_{18}^{17} - \frac{11}{18} = \underline{\phantom{a}}$$

e)
$$7\frac{1}{2} - 6\frac{3}{10} =$$
 f)  $5\frac{3}{5} - 2\frac{1}{4} =$  g) $9\frac{5}{12} - 4\frac{2}{3} =$  h) $8 - 2\frac{1}{3} =$ 

f) 
$$5\frac{3}{5} - 2\frac{1}{4} =$$

g)9
$$\frac{5}{12}$$
 - 4 $\frac{2}{3}$ =\_\_\_\_\_

h)8 - 
$$2\frac{1}{2}$$
=\_\_\_\_

i) 
$$17\frac{5}{17} - 7\frac{6}{17} =$$
 \_\_\_\_\_ j)  $\frac{5}{6} - \frac{3}{9} =$  \_\_\_\_\_ k)  $4\frac{1}{6} - 1\frac{1}{3} =$  \_\_\_\_\_

$$j)\frac{5}{6} - \frac{3}{9} =$$

$$k)4\frac{1}{6}-1\frac{1}{3}=$$
\_\_\_\_\_

99. Find each product. Write in simplest form.

a) 
$$\frac{1}{2} \cdot \frac{3}{5} =$$

b)
$$\frac{4}{5} \cdot \frac{5}{8} =$$
\_\_\_\_\_

a) 
$$\frac{1}{2} \cdot \frac{3}{5} =$$
 b)  $\frac{4}{5} \cdot \frac{5}{8} =$  c)  $\frac{7}{9} \cdot \frac{11}{20} =$  d)  $\frac{1}{5} \cdot \frac{7}{9} =$ 

$$d)\frac{1}{5} \cdot \frac{7}{9} = \underline{\hspace{1cm}}$$

$$e)\frac{4}{9} \cdot 27 =$$

f) 
$$\frac{1}{3}$$
 • 3=\_\_\_\_\_

e)
$$\frac{4}{9} \cdot 27 =$$
 \_\_\_\_\_ f) $\frac{1}{3} \cdot 3 =$  \_\_\_\_ g)  $8\frac{2}{5} \cdot 5\frac{1}{2} =$  \_\_\_\_\_ h) $\frac{2}{3} \cdot \frac{3}{5} =$  \_\_\_\_\_

$$h)\frac{2}{3} \cdot \frac{3}{5} =$$
\_\_\_\_\_

i)1
$$\frac{5}{7}$$
• 10 $\frac{1}{2}$ =\_\_\_\_\_

i) 
$$1\frac{5}{7} \cdot 10\frac{1}{2}$$
 j)  $2\frac{4}{9} \cdot (-3\frac{6}{11})$  j)  $18 \cdot \frac{2}{9}$  j)  $7\frac{1}{2} \cdot (2\frac{2}{3})$  j

i)18 • 
$$\frac{2}{9}$$
=\_\_\_\_\_

j) 
$$7\frac{1}{2} \cdot (2\frac{2}{3}) =$$

100. Find each quotient. Write in simplest form.

a) 
$$45 \div \frac{5}{14} =$$
 b)  $\frac{7}{9} \div \frac{2}{3} =$  c)  $\frac{5}{6} \div \frac{6}{7} =$  d)  $\frac{5}{28} \div \frac{1}{7} =$ 

b)
$$\frac{7}{9} \div \frac{2}{3} =$$

c) 
$$\frac{5}{6} \div \frac{6}{7} =$$

$$d)\frac{5}{28} \div \frac{1}{7} = \underline{\hspace{1cm}}$$

e)19
$$\frac{1}{2} \div 2\frac{3}{5}$$
= \_\_\_\_\_ f)2 $\frac{1}{4} \div 3$ = \_\_\_\_\_ f) $\frac{18}{21} \div 3$ = \_\_\_\_\_ h) $\frac{7}{8} \div \frac{7}{12}$ = \_\_\_\_\_

$$f)2\frac{1}{4} \div 3 =$$

g) 
$$\frac{18}{21} \div 3 =$$

h) 
$$\frac{7}{8} \div \frac{7}{12} =$$

101. Evaluate each algebraic expression for the given value(s) of the variable(s).

a) 
$$\frac{4}{5}x$$
 for  $x = \frac{5}{6}$ 

b) 
$$y \div 1\frac{3}{4}$$
 for  $y = 5\frac{5}{6}$ 

c) 
$$x \div 70 \ for \ x = \frac{7}{8}$$

102. Compare using <, =, or >:

103. Find the reciprocal of  $\frac{7}{11}$ 

 $12\frac{7}{15} + 6\frac{2}{5} - 19$ 

Name							Da	te				
	2023 Summe	r IXL Ma	ath Assi	gnme	nt: For	Rising 7			ents (I	REVISE	 )	_
This	summer, rising											Γhe
	listed in the ch											
•	se topics as po											
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	the informatio	•		•					_			
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	checking over											
Skill ↓	Week of →	6/19	6/26	7/3	7/10	7/17	7/24	7/31	8/7	8/14	8/21	8/28
	nts: 1, 2, 3, 4											
E. Mixed O	perations –											
Whole Nur	mbers: 1, 6, 7											
F. Number	Theory: 1, 2,											
3, 4, 5, 6, 7	, 8, 9											
G. Fraction	s &											
Decimals: 2	1, 2, 3											
H. Add & S	ubtract											
Decimals: 2	1, 3, 6											
I. Multiply	& Divide											
Decimals: 2	2, 3, 5, 7, 9											
J: Mixed O	perations -											
Decimals: 1	1, 3											
K: Add & Si	ubtract											
Fractions: 3	1, 3, 6, 9											
L. Multiply	Fractions: 1,											
2, 6, 9, 10,	12, 13, 15											
M. Divide F	ractions: 2,											
3, 5, 7, 10												
N. Mixed C	perations –											
Fractions: 1	1, 3											
Total Minu	ites for the											
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Total n	ninutes fo	r the summe	r:
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YOU MUST LOG IN WITH YOUR PERSONAL IXL PASSWORD! NO "GUEST" LOGINS!!! THIS IS THE ONLY WAY YOU WILL GET CREDIT FOR YOUR TIME AND EFFORT!!!

IF YOU HAVE TROUBLE AT ANY TIME, SEND AN EMAIL TO MR. MILLER – <u>REMEMBER IT MUST BE SENT FROM YOUR SCHOOL EMAIL</u> ADDRESS!!!