RightStart™ Mathematics

Corrections and Updates for Level E/Grade 4 Lessons and Worksheets, first edition

LESSON/WORKSHEET	CHANGE DATE	CORRECTION OR UPDATE
Lesson 5 Worksheet 6	05/01/2011	Figure D: The subtrahend should be –15.6 <mark>6</mark> not –15.61.
Lesson 13	03/01/2012	Caption of last graphic should say: Finding <mark>5/6</mark> of 12, which is 10.
Lesson 20	04/06/2016	Answers for worksheet 18 should say: Perimeter of the triangle is 5-7/10 in., not 5.7 in.
Lesson 24	10/25/2010	The game Percent Memory should be Percentages Memory.
Lesson 26 Worksheet 23-2	03/27/2014	Question 15 should be 28%, not 30%.
Lesson 28	10/25/2010	Games: The game Percent Memory should be Percentages Memory.
Lesson 29	03/01/2012	At the bottom of the page the first caption should say: Showing 1/4. And the second caption should say: Showing 1/2.
Lesson 32	04/15/2018	The answers for the worksheet are missing between the abacuses and problems. Answers are 201,102 and 40,015 and 10,024,000.
Lesson 33	11/25/2010	The numbers that are carried for the problem 73,809 added 4 times or 73,809 X 4 are listed as 18,43. The carried numbers should be 13 3.
Lesson 35	10/25/2010	Games: The game Percent Memory should be Percentages Memory. The game One Half can be found in the <i>Math Card</i> <i>Games</i> book at F8 not F116.
Lesson 36 Worksheet 33	03/12/2007	There should be a rectangle around the worksheet that measures 7 inches by 10 inches. See attached PDF. Then, the answer to the number of 1 square inches that will fit is 70 sq. in.
Lesson 52	10/25/2010	Games: The game Find the Quotients can be found in the <i>Math Card Games</i> book at D1 not D2.
Lesson 56	01/20/2011	Under the last activity, the MR was missing. Press MR (The answer 2 will show)
Lesson 59	10/25/2010	Games: The game Harder War should be Harder Fraction War.

Lesson 60	12/01/2012	Updated Gas prices to reflect currect day. PDF of Lesson and Worksheet are attached.
Lesson 60 Worksheet 64	12/01/2012	Updated prices. PDF attached.
Lesson 62 Worksheet 67	03/27/2014	Above Problems 17-32 in the second column, it should say Decimal (thousandths), not Decimal (hundredths).
Lesson 65	10/25/2010	Games: The game Harder War should be Harder Fraction War.
Lesson 67 Worksheet 73	04/04/2011	Figure D: Changed to reflect the answer 31.5. It is now 9×7 not 8 x 7.
Lesson 86	10/25/2010	Games: The game Gather the Factors can be found in the <i>Math Card Games</i> book at F25 not F26.
Lesson 89	12/02/2015	Worksheet answer for problem "e" is 3.55, not 3.6.
Lesson 94	10/25/2010	Games: The game Threesomes Solitaire should be Multiples Solitaire.
Lesson 94	09/02/2010	Question 16 on Review Sheet 105-B. The answer should be \$7.86 instead of \$7.85.
Lesson 103	10/25/2010	Games: The game Threesomes Solitaire should be Multiples Solitaire.
Lesson 104	07/10/2006	The ten angle answers to problems 5-8 at the top of the page should be 108°, not 72°.
Lesson 107	06/01/2011	On the table of perimeters and areas that the child is to complete, the perimeter of the heptagon should be 20.3 cm. not 20.6.
Lesson 110	10/25/2010	Games: The game Find the Two Factors can be found in the <i>Math Card Games</i> book at P29 not F29.
Lesson 124	07/01/2011	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Final Test	08/20/2014	Answer to 44 is 2 – 1 5/6 = 1/6.
Final test	10/01/2013	Added the final test to manual, see attached PDF.
Games list	11/25/2010	Games list was added at the end of manual. See attached PDF.



Lesson 60

Gasoline Prices

OBJECTIVES 1. To learn to read gasoline prices

2. To understand how to work with a fraction of a cent

MATERIALS Worksheet 64, "Gasoline Prices"

WARM-UP Write the puzzle numbers of 3 2 1 5 0. Some solutions are:

$3 + 2 \times 1 = 5 + 0$	$3 - 2 = 1 - 5 \times 0$
3/2 = 150%	$3 - 2 = 1^{50}$

Ask the child to write the multiples of 8 to 80 as shown:

8	16	24	32	40
48	56	64	72	80

Then practice with the 8s facts. <u>What is $16 \div 8$?</u> [2] <u>What is $40 \div 8$?</u> [5] <u>What is $56 \div 8$?</u> [7] <u>What is $72 \div 8$?</u> [9] <u>What is $80 \div 8$?</u> [10]

ACTIVITIES *Facts practice.* Ask the child to take out Division Practice-7 and to do the facts in the **bottom** rectangle. The answers are:

3	8	2	4	5	4	1	8	9	2
2	6	9	9	6	2	4	8	4	4
9	5	3	5	8 /	9	3	6	2	7
5	7	6	7	6 /	8	3	5	8	2
9	4	5	7	3 1	6	7	10	3	7

Reading gas station signs. Ask the child to look at the worksheet. <u>Have you ever seen signs like these?</u> [at gas stations] <u>What</u> <u>do you think they mean?</u> Bring out the following points.

- They are prices for one gallon of gasoline. The dollar sign is omitted.
- The three words are different grades of gasoline.
- The ⁹/10 means ⁹/10 of one cent.
- The small 9s are also 9/10 of one cent.
- The small 9s are also thousands of a dollar.

Fraction of a cent. What does one gallon of unleaded gas cost at Autoco Station? [3 dollars and 98 %10 cents] What do you think I actually pay? [\$3 and 99¢] Explain that gas stations charge the next whole cent if the price is a half of a cent or more.

What is the cost of a gallon of unleaded gas at Ethanall Station? [3 dollars and 99 %10 cents] What do you think I actually pay? [\$4]

Why do you think the stations price gas at 3.98 %10 cents instead of 3.99 cents? [It seems cheaper.]

Problems. Ask the child to solve the following problems.

1. <u>What is the cost of 2 gallons of premium fuel bought at Ethanall</u> <u>Station?</u> Before he starts his work, ask <u>Do you think your answer</u> will be closest to seven dollars, eight dollars, or nine dollars? [\$8] <u>Why?</u> [The price is close to \$4 so 2 gallons is close to \$8.] When he is ready, ask him to share his solution.

Note: You might ask the child to copy down similar signs he sees.

The problem can be solved with the fractions or with decimals as shown below.

$$4.04\overline{10}$	\$4.049
$+4.04\frac{9}{10}$	+ 4.049
$\$8.09\frac{8}{10}$	\$8.098

The cost is \$8.10 because .008 is more than half a cent.

2. What is the cost of 4 gallons of super fuel bought at Ethanall Station? What dollar amount will your answer be closest to? Ask the child his solution.

This could be done by adding 4 times, by doubling twice, or by multiplying.

The solution is shown below only with decimals.

13	
\$4.029	13
4.029	\$4.029
4.029	× 4
4.029	\$16.116
\$16.116	

The cost is \$16.12.

3. <u>What is the cost of 5 gallons of premium fuel bought at Autoco</u> <u>Station?</u>

The solution is shown using addition and multiplication.

24	
\$4.059	24
4.059	\$4.059
4.059	<u>×5</u>
4.059	\$20.295
+4.059	
\$20.295	

The cost is \$20.30.

4. <u>Which price is nearest to four dollars?</u> [the unleaded at Ethanall] <u>What is the price of 3 gallons at that price?</u> [\$11.997, so \$12.00]

Worksheet. Ask the child to do the worksheet. The solutions are as follows.

- 1. %10 of one cent
- 2. %10 of one cent
- 3. super

4. \$3 and 99¢, it is 3.98 %10, but the %10 is more than half, so we pay \$3 and 99¢.

5. \$4.00. \$3 and 99¢ plus 1 because the %10 is more than half a cent.

6. \$7.98	7. \$8.00
8. \$8.06	9. \$12.09
10. \$12.18	11. \$12.15

Name _____

Date _____

These are signs at two gas stations in Autoville. At these stations, the customer pays the next cent if the fraction of a cent is half or more.

	Unleaded Super Premium AUTOCO S	$3.98 \frac{9}{10} \\ 4.02 \frac{9}{10} \\ 4.05 \frac{9}{10} \\ 10 \\ TATION$	Unleaded 3. Super 4. Premium 4. ETHANALL STA	999 02 ⁹ 04 ⁹ TION
1. What doe	es the $\frac{9}{10}$ mean	at the Autoco Static	n?	
2. What doe	s the little 9 m	ean at the Ethanall S	tation?	
3. Which pri	ice is the same	at the two stations?		
4. How muc	ch would you j	pay for 1 gallon of u	nleaded gasoline at Autoco Sta	tion? Explain.
5. How muc	h would you p	bay for 1 gallon of u	lleaded gasoline at Ethanall St	ation? Explain.
6. How muc unleaded ga	h do you pay f asoline at Auto	for 2 gallons of co Station? Explain	7. How much do you pay f unleaded gasoline at Ethar	or 2 gallons of all Station?
8. How muc super gasoli	h do you pay f ine at Autoco S	for 2 gallons of Station?	9. How much do you pay fe super gasoline at Ethanall s	or 3 gallons of Station?
10. How mu premium ga	ch do you pay asoline at Auto	for 3 gallons of co Station?	11. How much do you pay premium gasoline at Ethar	for 3 gallons of all Station?



$$\frac{30.}{4} \frac{574 + 574 + 574 + 574}{4} = \frac{574}{574}$$

31. 8945 - 853 + 853 + 5 = **8950**

32-41. Write <, >, or = in the circles. 32 million (>) 3,200,000 $\frac{3}{12}$ $< \frac{3}{11}$ $\frac{7}{15}$ $< \frac{9}{15}$ 1 (>) .98 70% $< \frac{3}{4}$ $56 \times (9 + 1.8)$ = $(56 \times 9) + (56 \times 1.8)$ 10×.78 < 10 Average of (20, 21, 24) > 20 10% (=) .1 2^{3} (=) 8

42-46. Complete the equations.



47. Factor 36 into prime numbers using exponents.





KEY



Final Test, page 1	Name
	Date
1. Write only the answers to the oral ques	tions
4. Write only the answers. $79 + 67 =$	63 – 49 200% of 51 =
7. Draw lines to match the left column wi	th the right column.
38 thousand 38 three hundred and eight three and eight tenths three-eighths thirty-eight hundred three hundred eighty thirty-eight 38 hundredths	38,038 38 0.38 3 8 308 3.8 3800 380
15-17. Add.	18-20. Subtract.
$\begin{array}{rrrr} 2 \ 7 & 43,893 + 6748 = \\ 8 \ 6 & 24.85 + 7.3 = \\ + \ 9 & \end{array}$	9470 5,000 - 999 = -1379 10 - 4.5 =
21-23. Multiply. $608 7,183 \times 76 = 100$ $\times 45 718.3 \times 76 = 100$	24-25. Divide. 26-29. Circle the equations. $7\overline{)52524}$ $4 \times 9 = 3.6$ $\sqrt{4} = (9+3) \div 6$ $\sqrt{4} \times \sqrt{9} = \sqrt{3.6}$ $43\overline{)39012}$ $\sqrt{4} \times \sqrt{9} = \sqrt{3.6}$ $4 = 9 - 3 - 6$

 $30. \ \frac{574 + 574 + 574 + 574}{4} = \underline{\qquad}$

31. 8945 - 853 + 853 + 5 = _____



42-46. Complete the equations.



47. Factor 36 into prime numbers using exponents.





Games list for Level E					
Game	Lesson	MCG			
Advanced Authors	86	P17			
Corners with Eighths	19	N/A			
Corners with Tenths	20	N/A			
Division Memory	52	D2			
Division War	120	D12			
Equal Quotients	73	D6			
Equivalent Fractions	65	F24			
Factoring	81	F27			
Find the Quotients	52	D1			
Find the Two Factors	110	P29			
Fraction of Sixteen	17	F12			
Fraction of Twelve	13	F10			
Fraction Sum Rummy	130	F34			
Fraction Times a Fraction	130	F38			
Fraction War	21	F7			
Gathering the Factors	86	F25			
GCF	94	F28			
Harder Fraction War	59	F9			
Mixed to Improper Fractions	52	F22			
Multi-Fun	110	P20			
Multiple Authors	79	P16			
Multiples Solitaire	94	P19			
One	10	F6			
One Half	35	F8			
One or Two	16	F18			
Percentage Old Main	28	F47			
Percentage War	43	F48			
Percentages Memory	24	F46			
Remainders	79	D8			
Simplifying Fractions	103	F29			
Simplifying with the Multiplication Table	86	F23.1			
Weighted Multi-Fun	110	P28			