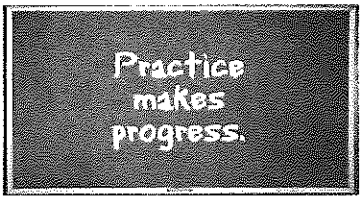
Dear Grade 5 Mathematicians,



We are finishing up **Unit 6** and preparing to show what we learned over the past several weeks. Throughout the unit, we focused on mastering many important skills. To practice these skills, please login to your online SRB (Student Reference Book) to review the **examples** and **Check Your Understanding** problems listed below. Be sure to check the answers in the answer key at the back of the SRB!

Skill	Example	Check your Understanding
***Multiply and divide decimals by powers of 10**	Pgs. 133, 136	Pgs. 133, 136
***Convert between measurement units in the metric system (cm and m)**	Pgs. 213	Pg. 214 (#3)
***Represent fractional data on line plots**	Pgs. 244-245	Pg. 245
***Answer questions about data on line plots**	Pg. 247	
***Estimate answers to decimal multiplication and division problems**	Pgs. 138-141	Pg. 141
***Multiply decimals**	Pg. 135	Pg. 135
***Divide decimals**	Pg. 137	Pg. 137

Mathematically Yours,
The Grade 5 Team

Name _____ Date _____

Grade 5, Unit 6 Study Guide

Please use your **Student Reference Book** to complete the problems listed below. All problems are in the **Check Your Understanding** section. **Pay careful attention to the problem numbers and directions listed!**

Pg. 133

1. Answer=

Estimate=

2. Answer=

Estimate=

3. Answer=

Estimate=

4. Answer=

Estimate=

Pg. 136

1. 2. 3. 4.

Pg. 214

3. 3 meters = _____cm

Pg. 245

1. a. _____

Smallest = Largest =

b. Line Plot

c. Interval =

d. _____

Pg. 141

1. Answer=

2. Answer=

3. Answer=

Estimate=

Estimate=

Estimate=

Pg. 135

1. Answer=

2. Answer=

Estimate=

Estimate=

3. Answer=

4. Answer=

Estimate=

Estimate=

Pg. 137

1. Answer=

2. Answer=

3. Answer=

Estimate=

Estimate=

Estimate=

5^{th} Grade Unit 6 Review

NAME:

1. Multiply.

   a. $1.9 * 10^1 =$

   b. $1.9 * 10^2 =$

   c. $1.9 * 10^3 =$

2. Where did you place the decimal point in your answer to $1.9 * 10^2$? How did you know to place it there?

Divide.

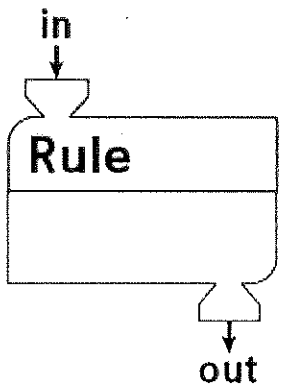
a. $16.5 \div 10^1 =$

b. $16.5 \div 10^2 =$

c. $16.5 \div 10^3 =$

4. Where did you place the decimal point in your answer to $16.5 \div 10^2$? How did you know to place it there?

5. Convert between centimeters (cm) and meters (m) to complete the "What's My Rule?" table. Then write a rule using a power of 10 in exponential notation.



In (cm)	out (m)
200	
	0.57
75	
8	
63	
	7.9

6. Alvaro is putting down flooring in his bathroom. He has a sheet of flooring that is 2.8 meters long. He cuts off 9 centimeters from the end to make it fit. How long is the piece of flooring Alvaro puts in his bathroom?

7. Use an estimate to place the decimal point in each product.

a. 61.2 * 5.3 = 3 2 4 3 6

b. 3.14 * 19.1 = 5 9 9 7 4

8. Explain how you determined where to place the decimal point in the problem 3.14 * 19.1 = 5 9 9 7 4

9. 18.2 * 5.9 =

10. Explain how you solved the problem 18.2 * 5.9.

11. $61.4 * 58.8 =$

12. Make an estimate. Then divide as if the dividend were a whole number. Use your estimate to place the decimal point in your answer.

$7.84 \div 4 = ?$

Estimate:

$7.84 \div 4 =$ ____

13. Write an equivalent problem that has a whole-number divisor. Then solve the equivalent problem and complete the number sentence.

$3.5 \div 0.7 = ?$

Equivalent problem:

$3.5 \div 0.7 =$ ____

14. **a.** A rectangular one-story house covers an area of 1,800 square feet. The ceilings are 7 feet high. What is the volume of the interior of the house?

Number model:

Volume: ____ cubic feet

b. The owners added a second floor to the house. The second floor is 40 feet long and 20 feet wide with ceilings that are 7 feet tall. What is the volume of the interior of the second floor?

Number model:

Volume: ____ cubic feet

c. What is the total volume of the interior of the house?

Number model:

Volume: ____ cubic feet

15. Hina is studying butterflies at a botanical garden. She took careful measurements of the wingspans of 10 different butterflies and recorded the lengths below.

Butterfly Wingspans (inches)

$2\frac{3}{4}$	$1\frac{3}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{3}{4}$	$4\frac{3}{4}$	$4\frac{1}{2}$	$1\frac{1}{2}$	$3\frac{1}{2}$

a. Complete the line plot using Hina's data. Remember to add a title and label.