



Fourth Grade Math Review, Master, and Extend

Dear Parents,

Summer presents a great opportunity to continue learning from home. Students can review standards learned in Fourth Grade, ensure mastery of key standards, and preview standards for Fifth Grade. The Fourth Grade focus was to:

- Addition and subtraction with the traditional algorithm
- Multiply and divide whole numbers
- Operations with fractions
- Angle measurement

Concepts students may preview for 5th Grade

- Place value with decimals
- Powers of 10 patterns: $10^1 = 10$, $10^2 = 10 \times 10$, $10^3 = 10 \times 10 \times 10$
- Fluently multiply multi-digit numbers with the standards algorithm up to a 3 digit by 2 digit factor. Example: $125 \times 32 = 4,000$
- Fluently divide up to 4 digit numbers by 2 digit divisors. Example: $4,225 \div 25 = 169$

Vocabulary

Exponent: shows the number of times the base number is multiplied by itself

Quotient: answer to a division problem

Fluently: accurately and efficiently

Example 1

The value of a digit depends upon its position in a number. You can find the value of a digit by multiplying it by its place.

Millions			Thousands			Ones			Decimals		
Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
								3	3	3	3

$(3 \times 1) + (3 \times 0.1) + (3 \times 0.01) + (3 \times 0.001)$

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Example 2

$$2.5 \times 10^3 = 2.5 \times (10 \times 10 \times 10) = 2.5 \times 1,000 = 2,500$$

Example 3

Multiply 512×46

512
 $\times 46$

Then we need to multiply 512 by 40.

First, we need to multiply 512 by 6.

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Example 4

$$350 \div 10 = 35$$

$$350/_{10} = 35$$

$$(350 \times \frac{1}{10}) = 35$$

Home Activities

- When grocery shopping, have your child read the cost of items with the correct place value.
- Practice addition, subtraction, multiplication, and division facts.
- Make up numbers, roll numbers with number cubes, or find numbers (on labels) and multiply or divide them.
- When driving, use street numbers to multiply and divide.

Internet Resources

Textbook Online: connected.mcgraw-hill.com

Textbook Publisher	Print and/or consumable	Online Access
My Math McGraw-Hill 2013	Consumable Workbook	http://connected.mcgraw-hill.com/connected/login.do Student User ID: ccsd(student ID) Password: cobbmath1

Learning Links to build background knowledge and to preview 5rd Grade:

Skill & Concept	Website	Link
Early Math	 <p>Getting started is simple: Click Start Mission, Create a New Account, sign up using either gmail, facebook or email address. Enter your name and birthdate, follow the link that is sent to your account, and finish by signing up with a username and password.</p>	https://www.khanacademy.org/math/early-math
Recognize the value of digits in a multi-digit number (5.NBT.A.1)		https://learnzillion.com/resources/72778-recognize-the-value-of-digits-in-a-multi-digit-number-5-nbt-a-1
Explain and represent patterns when multiplying or dividing by a power of ten (5.NBT.A.2)		https://learnzillion.com/resources/72620-explain-and-represent-patterns-when-multiplying-or-dividing-by-a-power-of-ten-5-nbt-a-2

<p>Explain and represent patterns when multiplying or dividing by a power of ten (5.NBT.A.2)</p>		<p>https://learnzillion.com/resources/72620-explain-and-represent-patterns-when-multiplying-or-dividing-by-a-power-of-ten-5-nbt-a-2</p>
<p>Find whole number quotients with up to 4-digit dividends and 2-digit divisors (5.NBT.B.6)</p>		<p>https://learnzillion.com/resources/72204-find-whole-number-quotients-with-up-to-4-digit-dividends-and-2-digit-divisors-5-nbt-b-6</p>
<p>Use the standard algorithm for multiplication</p>		<p>https://learnzillion.com/lesson_plans/8041-use-the-standard-algorithm-for-multiplication</p>
<p>5th Grade Online Math Games</p>		<p>http://www.adaptedmind.com/gradelist.php?grade=5</p>



