



Second Grade Math Review, Master, and Extend

Dear Parents,

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

- Add and subtract within 20 from memory
- Add and subtract within 1000
- Solve 1 and 2-step word problems

Concepts students may preview for 3rd Grade

- Interpret multiplication with arrays
- Interpret division with arrays

Vocabulary

Factors: two or more whole numbers multiplied together to get a given number called the product

Product: the result of multiplication

Array: the arrangement of objects in equal rows

Example:

	6					
2	•	•	•	•	•	•
	•	•	•	•	•	•

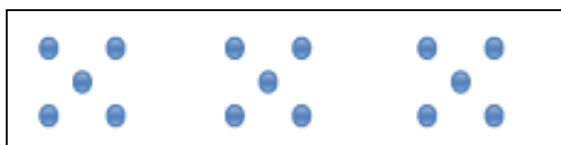
Quotient: the result of division

Dividend: number being divided; total amount being divided into groups.

Ex. $24 \div 8 = 3$; 24 is the dividend, 8 is the divisor, and 3 is the quotient

Divisor: number dividing into the total; may be the number of groups or the number of items in a specific number of groups

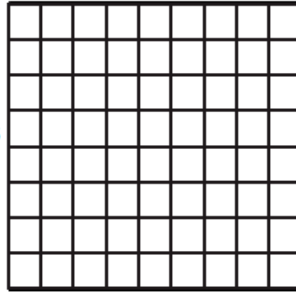
Example 1



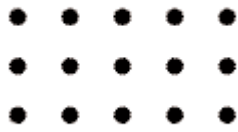
This shows multiplication using grouping with 3 groups of 5 objects and can be written as 3×5 .

Once students understand the concept of repeated addition, they move to understanding how arrays represent multiplication facts.

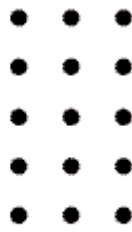
→ This grid shows an 8 x 9 array. Students soon recognize that facts can be made up of smaller facts.



Example 2



$$15 \div 3 = 5$$



$$15 \div 5 = 3$$

This shows division using grouping of 15 dots made up of 3 groups of 5 dots and 5 groups of 3 dots.

Home Activities

- A Fair Share: give your child the responsibility of sharing a box of markers, a bag of candy etc. between 2-4 people. Begin with problems that do not have remainders.
- Using playing cards ask your child draw 2 cards and have them create an array from the two numbers. Have your child explain to you the multiplication of the array and relationships to division (take the total array and divide by one of the numbers).

Internet Resources

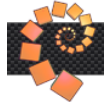
Textbook Online: connected.mcgraw-hill.com

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 3rd 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
Solve division problems: using arrays		https://learnzillion.com/lesson_plans/6841-represent-multiplication-using-arrays
Solve division problems: using arrays		https://learnzillion.com/lesson_plans/5215-solve-division-problems-using-array

**Arrays,
Multiplication
and Division**



NRICH enriching mathematics

<http://nrich.maths.org/8773>

