

Math Unit 1 - STUDY GUIDE

Here are some websites you can explore to practice.

- This website lets you write a huge number, and then it translates it into words:

<http://www.mathcats.com/explore/reallybignumbers.html>

This website has a variety of games to practice skills

<http://www.bbc.co.uk/skillswise/maths/games?page=2>

A division activity that gives you a variety of different drag-and-drop questions:

<http://www.oswego.org/ocsd-web/games/SumSense/sumdiv.html>

- Here's an activity that tests both your knowledge of multiples and your speed:

<http://www.mathplayground.com/multiples.html>

- See if you can answer 20 multiplication table questions in 1 minute: <http://resources.oswego.org/games/SpeedGrid/Multiplication/urikamultires.html>

- This activity tests if you can draw all the factor arrays for a given number:

http://www.shodor.org/interactivate/activities/FactorizeTwo/?version=1.6.0_11&rowse

- Here is an interactive website about arrays:

http://www.haelmedia.com/OnlineActivities_txh/mc_txh3_002.html

Here's a link that shows how the Sieve of Eratosthenes works to find prime numbers: (needs Java to work)

http://nlvm.usu.edu/en/NAV/frames_asid_158_g_3_t_1.html?open=instructions&from=category_g_3_t_1.html

- Find the missing numbers:

<http://www.beaconlearningcenter.com/WebLessons/MissingNumbers/default.htm>

- Here are patterns to solve, at a variety of skill levels:

<http://www.funbrain.com/cracker/index.html>

- A simple activity for multiplying decimals by whole numbers:

<http://cemc2.math.uwaterloo.ca/mathfrog/english/kidz/decMulti6.shtml>

- Here's an activity with varied levels up to more challenging:

<http://www.funbrain.com/football/index.html>

All sorts of information about decimals:

<http://www.aaamath.com/grade6.htm#topic90>

- This is a game that tests your ability to make estimates and/or exact calculations for large-number operations:

<http://www.mrnussbaum.com/golf/index.html>

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You should be able to:

1. Demonstrate an understanding of place value, including numbers that are:
 - greater than one million
 - less than one thousandth.
2. Solve problems involving whole numbers and decimal numbers.
3. Demonstrate an understanding of factors and multiples by:
 - determining multiples and factors of numbers less than 100
 - identifying prime and composite numbers
 - solving problems using multiples and factors.
5. Demonstrate an understanding of multiplication and division of decimals (1-digit whole number multipliers and 1-digit natural number divisors).

A) You need to write the value of underlined digits.

1 439 756 231.3334

B) You need to be able to write out a given number in words, and also write the number when given words.

c) You need to solve problems.

D) You need to write multiples

example the first 5 multiple of 4 are 4, 8, 12, 16, 20

E) You need to write factors

Example factors of 30 are 1, 2, 3, 5, 6, 10, 15, 30

F) You need to know difference between prime and composite numbers and give examples.

G) You need to figure out prime factorization

Example 12

2 6

2 3

So prime factorization of 12 is $2 \times 2 \times 3$

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H) You need to multiply a decimal number by 1 digit number

Example 2.43×3

I) You need to divide a decimal number by a 1 digit whole number

Example $2.45 \div 5$