

**Need More Help?**  
**Digital resources for Common Core**  
**Grade 4**

## **Operations and Algebraic Thinking [OA]**

### **[4-OA1]**

- <http://www.uen.org/core/math/downloads/4OA1.pdf>

[http://Nlvm.usu.edu/en/nav/topic\\_t\\_1.html](http://Nlvm.usu.edu/en/nav/topic_t_1.html)

Number and Operations (Grades 3-5) Rectangle Multiplication—This virtual manipulative tool allows students to create arrays displaying different grouping (e.g., 3 groups of 6 and 6 groups of 3).

<http://Mathstory.com/mathlessons/arrayrace.htm>

This resource includes a short lesson and a game for students to practice building arrays, writing equations, and solving for a product.

[http://www.internet4classrooms.com/grade\\_level\\_help](http://www.internet4classrooms.com/grade_level_help)

Locate the activity “Groups of Dogs” at the following site for students to look at arrays using objects.

### **[4-OA2]**

- <http://www.uen.org/core/math/downloads/4OA2.pdf>

<http://www.helpingwithmath.com>

Look at Multiplication and Division Word Problems for examples to use with students of multiplicative comparison.

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

Challenging examples of word problems using multiplicative comparison.

<http://www.mathscore.com/math/standards/Common%Core/4th%20Grade/>

Scroll down to the correct domain and standard to find a listing of online problems displaying multiplicative comparison.

### **[4-OA3]**

- <http://www.uen.org/core/math/downloads/4OA3.pdf>

<http://www.mathplayground.com>

Click on the “Word Problems” tab and select “Word Problems with Katie” for different types of multistep problems.

<http://www.mathscore.com/math/practice/Word%Problems>

The site has multiple problems listed that require students to solve different operations in steps to determine the answer.

<http://www.ixl.com/math/grade-4/multi-step-word-problems>

The site offers additional examples of word problems.

[http://www.internet4classrooms.com/grade\\_level\\_help/solve\\_problems\\_math\\_fourth\\_4th\\_grade.htm](http://www.internet4classrooms.com/grade_level_help/solve_problems_math_fourth_4th_grade.htm)

Look for the activity "Two-step Computation" to play a game with multi-step operations.

### [4-OA4]

- <http://www.uen.org/core/math/downloads/4OA4.pdf>

<http://illuminations.nctm.org/LessonDetail.aspx?ID=L620>

Students distinguish between numbers with several factors and those with only a few factors.

<http://illuminations.nctm.org/lessons/FactorGame/FactorGame-AS-Problems.pdf>

This link offers a worksheet that assesses students' knowledge after playing the Factor Game.

<http://www.xpmath.com/forums/arcade.php?do=play&gameid=60>

Play King Kong by whacking him if he's holding a prime number.

<http://www.aaamath.com/fra63ax2.htm>

The computer lists a number and the student identifies it as prime or composite.

[http://www.mathplayground.com/howto\\_primenumbers.html](http://www.mathplayground.com/howto_primenumbers.html)

Watch a video that defines the terms from the standard, including factor, prime, and composite.

### [4-OA5]

- <http://www.uen.org/core/math/downloads/4OA5.pdf>

<http://www.uen.org/3-6interactives/math.shtml#patterns>

A listing of online pattern games that students can play.

# **Number and Operations in Base Ten [NBT]**

## **[4-NBT1]**

- [https://docs.google.com/viewer?a=v&q=cache:g3zqp9UonolJ:schools.utah.gov/CURR/mathelem/Core-Curriculum/Number-and-Operations-in-Base-Ten/4NBT1.aspx+%5B4-NBT1%5D&hl=en&gl=us&pid=bl&srcid=ADGEESjy1bISkN7XAyzTYGj\\_m8dBGKsykeZDzi\\_HrPvkrhV\\_PPvy\\_sAEBLJ9GYJdQb3uoZIC1wcE\\_ma1ZxtDWLxg-tg2Dqermo12DDUgUYzIC-o6J87eEcyFSd3e7c-qZL2Ah1LJE7ivP&sig=AHIEtbSYRhZeJ\\_WqY\\_yyDAHT42t3g8QMBQ](https://docs.google.com/viewer?a=v&q=cache:g3zqp9UonolJ:schools.utah.gov/CURR/mathelem/Core-Curriculum/Number-and-Operations-in-Base-Ten/4NBT1.aspx+%5B4-NBT1%5D&hl=en&gl=us&pid=bl&srcid=ADGEESjy1bISkN7XAyzTYGj_m8dBGKsykeZDzi_HrPvkrhV_PPvy_sAEBLJ9GYJdQb3uoZIC1wcE_ma1ZxtDWLxg-tg2Dqermo12DDUgUYzIC-o6J87eEcyFSd3e7c-qZL2Ah1LJE7ivP&sig=AHIEtbSYRhZeJ_WqY_yyDAHT42t3g8QMBQ)

## **[4-NBT2]**

- <http://www.uen.org/core/math/downloads/4NBT2.pdf>

<http://www.uen.org/Lessonplan/preview?LPid=18917>

Read and write numbers:

<http://www.aaastudy.com/cmp.htm#topic3>

Comparing numbers:

<http://nrich.maths.org/public/search.php?search=compare>

## **[4-NBT3]**

- [https://docs.google.com/viewer?a=v&q=cache:xdCLA-ocgRkJ:schools.utah.gov/CURR/mathelem/Core-Curriculum/Number-and-Operations-in-Base-Ten/4NBT3.aspx+%5B4-NBT+3%5D&hl=en&gl=us&pid=bl&srcid=ADGEESgNld5uBu1-oKh4\\_W95N1DeSaDzfrLxi2gGLXvzmKclx8EytImrl0ynkYGWdCUspHE3JSuuNKM5VwcKq20k7PTkPXwJuiEQ2Or8gw2C0ySh2liU5igsEqvn5eQvivi8d3TtMHhQ&sig=AHIEtbR1GAxZfqPVUS7kxuOnxFLOJNigvQ](https://docs.google.com/viewer?a=v&q=cache:xdCLA-ocgRkJ:schools.utah.gov/CURR/mathelem/Core-Curriculum/Number-and-Operations-in-Base-Ten/4NBT3.aspx+%5B4-NBT+3%5D&hl=en&gl=us&pid=bl&srcid=ADGEESgNld5uBu1-oKh4_W95N1DeSaDzfrLxi2gGLXvzmKclx8EytImrl0ynkYGWdCUspHE3JSuuNKM5VwcKq20k7PTkPXwJuiEQ2Or8gw2C0ySh2liU5igsEqvn5eQvivi8d3TtMHhQ&sig=AHIEtbR1GAxZfqPVUS7kxuOnxFLOJNigvQ)

<http://www.321know.com/grade4.htm#topic49>

Number Lines

## **[4-NBT4]**

[www.coolmath.com](http://www.coolmath.com)

## **[4-NBT5]**

- <http://www.uen.org/core/math/downloads/4NBT5.pdf>

<http://www.prongo.com/math/multiplication.html>

Use Unit 3 at: <http://eduplace.com/math/mthexp/g4/mathbkg/>

Use Unit 4 at: <http://eduplace.com/math/mthexp/g5/mathbkg/>

## **[4-NBT6]**

- <http://www.uen.org/core/math/downloads/4NBT6.pdf>

<http://nrich.maths.org/6402>

<http://www.kidsnumbers.com/long-division.php>

Place value manipulatives (e.g. money, base ten blocks, discs, etc.) and graph paper.

<http://eduplace.com/math/mthexp/g4/mathbkg/>

<http://nrich.maths.org/6402>

Use Unit 4

## **Number and Operations-Fractions [NF]**

### **[4-NF1]**

- <http://www.uen.org/core/math/downloads/4NF1.pdf>

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_265\\_g\\_2\\_t\\_1.html?open=activities&from=category\\_g\\_2\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_265_g_2_t_1.html?open=activities&from=category_g_2_t_1.html)

Virtual manipulatives (National Library of Virtual Manipulatives, grades 3-5; Number and operations; Number

### **[4-NF2]**

- <http://www.uen.org/core/math/downloads/4NF2.pdf>

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_159\\_g\\_2\\_t\\_1.html?from=category\\_g\\_2\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_159_g_2_t_1.html?from=category_g_2_t_1.html)

National Library of Virtual Manipulatives—comparing fractions.

<http://illuminations.nctm.org/LessonDetail.aspx?id=U112>

NCTM illuminations—comparing fractions, eggsactly with fractions lessons 4, 5, and 6.

### **[4-NF3a-d]**

- <http://www.uen.org/core/math/downloads/4NF3.pdf>

<http://studyjams.scholastic.com/studyjams/jams/math/fractions/add-sub-common-denom.htm>

<http://www.ncpublicschools.org/docs/acre/standards/support-tools/unpacking/math/4th.pdf>

<http://www.visualfractions.com/>

<http://www.iknowthat.com/com/L3?Area=FractionsWorkbench>

<http://www.primarygames.com/fractions/start.htm>

## **[4-NF4]**

- <http://www.uen.org/core/math/downloads/4NF4.pdf>

[www.ixl.com](http://www.ixl.com)

The web site allows visitors up to 20 without purchasing.

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_194\\_g\\_2\\_t\\_1.html?from=category\\_g\\_2\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_194_g_2_t_1.html?from=category_g_2_t_1.html)

[http://www.homeschoolmath.net/teaching/f/multiplying\\_fractions\\_1.php](http://www.homeschoolmath.net/teaching/f/multiplying_fractions_1.php)

## **[4-NF5]**

- <http://www.uen.org/core/math/downloads/4NF5.pdf>

<http://www.teachrkids.com/>

<http://www.mrnussbaum.com/fractions.htm>

## **[4-NF6]**

- <http://www.uen.org/core/math/downloads/4NF6.pdf>

<http://www.mathleague.com/help/fractions/fractions.htm>

[http://www.aaamath.com/B/g42b\\_ix1.htm#section3](http://www.aaamath.com/B/g42b_ix1.htm#section3)

## [4-NF7]

- <http://www.uen.org/core/math/downloads/4NF7.pdf>

[http://nlvm.usu.edu/en/nav/frames\\_asid\\_264\\_g\\_2\\_t\\_1.html?from=category\\_g\\_2\\_t\\_1.html](http://nlvm.usu.edu/en/nav/frames_asid_264_g_2_t_1.html?from=category_g_2_t_1.html)

The following link could be used to compare, even though it is intended for addition and subtraction.

<http://www.coolmath4kids.com/fractions/index.html>

## **Measurement and Data [MD]**

### [4-MD1]

- <http://www.uen.org/core/math/downloads/4MD1.pdf>

[http://www.harcourtschool.com/activity/con\\_math/g04c24.html](http://www.harcourtschool.com/activity/con_math/g04c24.html)

<http://www.jmathpage.com/JIMSMeasurementpage.html>

### [4-MD2]

- <http://www.uen.org/core/math/downloads/4MD2.pdf>

<http://www.thatquiz.org/tq/previewtest?A/O/Z/P/83711291417153>

[http://www.helpingwithmath.com/by\\_subject/word\\_problems/word\\_problems\\_measurement01\\_4md2.htm](http://www.helpingwithmath.com/by_subject/word_problems/word_problems_measurement01_4md2.htm)

### [4-MD3]

- <http://www.uen.org/core/math/downloads/4MD3.pdf>

<http://nrich.maths.org/6923>

<http://nrich.maths.org/2663>

## [4-MD4]

- <http://schools.utah.gov/CURR/mathem/CoreCurriculum/Measurement---Data/4MD4.aspx>

<http://www.uen.org/3-6interactives/math.shtml#fractions>

## [4-MD5a]

- <http://www.uen.org/core/math/downloads/4MD5.pdf>

[http://www.teachertube.com/viewVideo.php?title=angles\\_in\\_a\\_circle&video\\_id=231281](http://www.teachertube.com/viewVideo.php?title=angles_in_a_circle&video_id=231281)

Video showing angles growing by  $n$  degrees—good for teacher background ONLY!

<http://www.ixl.com/math/grade/4>

Math quiz using angles and degrees.

<http://www.mathisfun.com/angles.html>

Finding degrees of angles.

## [4-MD6]

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

[http://www.toonuniversity.com/6m\\_angle\\_d.swf](http://www.toonuniversity.com/6m_angle_d.swf)

## Geometry [G]