**Getting familiar with the standards:**

**NCTM standards**: <http://www.nctm.org/standards/content.aspx?id=4294967312>

I. There are 5 strands within the content standards. List them (the first one is done for you)

1. Number and operations

2.

3.

4.

5.

II. There are 5 strands within the process standard. List them (the first one is done for you)

1. Problem solving

2.

3.

4.

5.

III. Read the lesson *Investigating Fractions with Pattern Blocks* at <http://illuminations.nctm.org/Lesson.aspx?id=1308>

a. What content strand(s) does the lesson claim to be related to?

b. Find a specific NCTM standard within that strand that is relevant to this lesson, and copy it here:

c. What process strand(s) does the lesson claim to be related to?

**Common Core Standards** (Wisconsin) <http://www.corestandards.org/Math/>

IV. Follow the link to the Standards for Mathematical Practice. Read Standard 1: Make sense of problems and persevere in solving them. List 3 specific things that this standard suggests that children should be able to do.

a.

b.

c.

V. The Common Core Standards have different content domains (strands) at different grades. Put check marks in the boxes to show which grade levels each domain/strand is addressed in. You can do this by looking through each of the Standards by Domain and looking at what grade levels are listed, or by looking through the grade levels, and noting which domains are listed for that grade level. (The first row is done for you.)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Domain/strand | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Counting and Cardinality | X |  |  |  |  |  |  |  |  |
| Operations and Algebraic Thinking |  |  |  |  |  |  |  |  |  |
| Number and Operations in Base Ten |  |  |  |  |  |  |  |  |  |
| Number and Operations—Fractions |  |  |  |  |  |  |  |  |  |
| Measurement and Data |  |  |  |  |  |  |  |  |  |
| Geometry |  |  |  |  |  |  |  |  |  |
| Ratios and Proportional Relationships |  |  |  |  |  |  |  |  |  |
| The Number System |  |  |  |  |  |  |  |  |  |
| Expressions and Equations |  |  |  |  |  |  |  |  |  |
| Functions |  |  |  |  |  |  |  |  |  |
| Statistics and Probability |  |  |  |  |  |  |  |  |  |

VI. Find the specific standard 1.OA.D.7 and copy it here:

VII. Find a specific standard in Common Core that mentions the word: fluent, fluently or fluency and copy it here.

**Minnesota Math Standards.** Download or view the file [Minnesota K-12 Academic Standards in Mathematics (2007)](http://education.state.mn.us/mdeprod/idcplg?IdcService=GET_FILE&dDocName=005247&RevisionSelectionMethod=latestReleased&Rendition=primary)  from <http://education.state.mn.us/MDE/EdExc/StanCurri/K-12AcademicStandards/Math/index.html>

VIII. List the four strands that the standards are organized into (see introduction)

IX. Find a standard that specifically mentions solving problems in a real world context and copy it here:

X. Find a standard that specifically mentions fluency (the words fluent, fluently or fluency) and copy it here: