Learning Multiplication Facts

Grade 3: Number Sense 2.2 (Key Standard)
Memorize to automaticity the multiplication table for numbers between 1 and 10.
In **sixth grade**, we require memorization of a 12 by 12 multiplication table even though it is not part of the standards.

There are approximately 33 multiplication facts that students should know (memorize). These are the remaining facts from a 12 x 12 multiplication table once the 1's, 2's, 5's, 10's, 11's, and one of each pair of the commutative property (3 • 7; 7 • 3) have been removed. Five versions of these 33 multiplication facts are provided. Each version is the same 33 multiplication facts. Only the order of the problems differs.

Handouts:
1. 5 versions of a 33-problem multiplication facts test
2. An example of the scores entered into "Making the Grade"
   Only the four most recent tests contribute to the "grade"
   These four tests are weighted: 40% (most recent test); 30% (2nd most recent); 20% (3rd most recent); and 10% (4th most recent)

Multiplication Facts Assessment
   Give a two-minute facts test; begin with version 1
   Suggestion on administering the two-minute facts test:
1.   desks clear
2.   hand out a BIC pen
3.   hand out test, face-down
4.   Students take the test for 2 minutes.
5.   Papers face-down at the end
6.   Hand in pens; take out a pencil to grade
7.   Read the problem two times; every student answers
     Two times so that those who do not know the answer can say it correctly the second time.
8.   Record the number wrong at the bottom of each column
9.   Subtract the number wrong from 33 = the number correct
     We use the equation: $33 - x = y$
     $33 -$ the # wrong = the # correct
     One small attempt at embedding algebra — the # wrong and correct *varies*.
10. Collect and check their grading
     Record
11. An example of these grades entered into Making the Grade is provided.