

Dear Parents,

This year our students will continue to spend time practicing daily and learning math facts, beginning in the operation of subtraction and then moving on to multiplication. We will be using a program called *Otter Creek Math*. We will spend a few minutes each day working towards mastering all of the facts. A fact is mastered when it can be answered instantly, without any pause. *Otter Creek Math* is unique because it teaches only 2 facts and their inverses on each level. The program allows each child to go at his or her own pace, taking as many days to master those two facts as needed. When mastery at each level is achieved, the child is then assigned the next level to learn. Each level is cumulative, including all the facts learned so far.

You can help your child progress and learn faster by practicing at home the same set of facts your child is learning at school. We are sending the subtraction and multiplication flash cards home with your child. Along with this letter is the facts sequence for each operation. Your child will know what level he or she is on each week. Please spend just a few minutes each day helping your child review the facts that he or she is working on for the week, along with the previous facts that have already been mastered.

Learning all the facts in a given operation is a lot of work, but future success in math is dependent upon knowing facts so well that the answers come automatically without much thinking. Especially in a world of calculators, being able to compute math facts mentally is needed just to know if the calculator answer is correct. You can also help by sharing with your child the importance of learning math facts. Thank you so much for your support of this critical learning goal!

Sincerely,

The Third Grade Teachers

### Subtraction Facts Sequence

Set A.	3-1, 3-2,	4-1, 4-3
Set B.	5-1, 5-4,	2-1
Set C.	6-1, 6-5	4-2
Set D.	7-1, 7-6,	6-3
Set E.	8-1, 8-7,	8-4
Set F.	9-1, 9-8,	10-5
Set G.	10-1, 10-9,	any # - 0
Set H.	5-3, 5-2,	12-6
Set I.	6-2, 6-4,	14-7
Set J.	7-2, 7-5	16-8
Set K.	8-2, 8-6,	18-9
Set L.	9-2, 9-7,	11-7, 11-4
Set M.	any number - itself	
Set N.	10-2, 10-8,	14-8, 14-6
Set O.	11-2, 11-9,	15-9, 15-6
Set P.	7-3, 7-4,	13-7, 13-6
Set Q.	8-3, 8-5,	15-8, 15-7
Set R.	13-8, 13-5,	16-9, 16-7
Set S.	9-3, 9-6,	14-9, 14-5
Set T.	10-3, 10-7,	17-9, 17-8
Set U.	11-3, 11-8,	13-9, 13-4
Set V.	12-3, 12-9,	12-7, 12-5
Set W.	9-5, 9-4,	12-8, 12-4
Set X.	10-6, 10-4,	11-6, 11-5

### Multiplication Facts Sequence

Set A.	1 x any number
Set B.	0 x any number
Set C.	2 x 3, 3 x 2 2 x 2
Set D.	2 x 4, 4 x 2 5 x 2, 2 x 5
Set E.	6 x 2, 2 x 6 7 x 2, 2 x 7,
Set F.	8 x 2, 2 x 8 9 x 2, 2 x 9
Set G.	9 x 3, 3 x 9 9 x 4, 4 x 9
Set H.	9 x 5, 5 x 9 3 x 3
Set I.	9 x 6, 6 x 9 4 x 4
Set J.	9 x 7, 7 x 9 5 x 5
Set K.	9 x 8, 8 x 9 6 x 6
Set L.	3 x 4, 4 x 3 7 x 7
Set M.	3 x 5, 5 x 3 8 x 8
Set N.	3 x 6, 6 x 3 9 x 9
Set O.	3 x 7, 7 x 3 3 x 8, 8 x 3
Set P.	7 x 8, 8 x 7 6 x 8, 8 x 6
Set Q.	5 x 8, 8 x 5 4 x 8, 8 x 4
Set R.	7 x 6, 6 x 7 7 x 5, 5 x 7
Set S.	7 x 4, 4 x 7 6 x 5, 5 x 6
Set T.	5 x 4, 4 x 5 4 x 6, 6 x 4