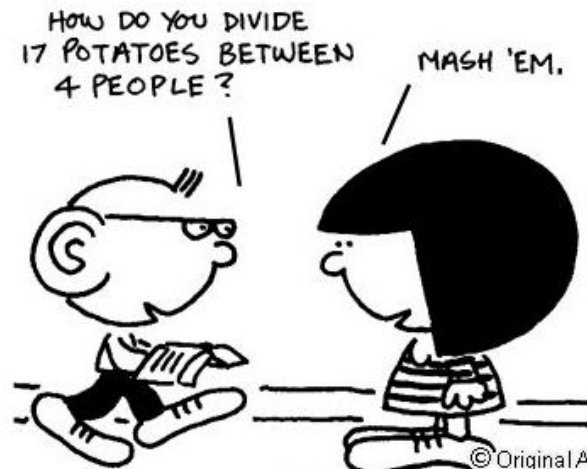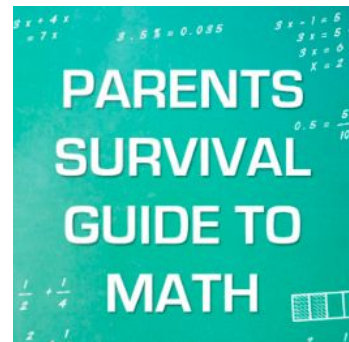# Math Parent Guide

There are several foundational skills that will help your child be successful in fourth grade, including addition/subtraction fluency and multiplication fluency. Here is a handy guide to help you at home!

PARENTS SURVIVAL GUIDE TO MATH

HOW DO YOU DIVIDE 17 POTATOES BETWEEN 4 PEOPLE?

MASH 'EM.

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The **Hot** Seat

Look under your seat to find either a blue or yellow sticky note.

- If you have a blue sticky note, you will be completing the Area Model Strategy for Division.

- If you have a yellow sticky note, you will be completing the Expanded Notation Model for Division.

- We will go over the answers after you've had some time to solve.

Area Model

845 divided by 5

	100	+	60	+	9	

```
              100          +        60        +        9

         |   845      |    |   345      |    |    45      |
    5    | - 500      |    | - 300      |    |  - 45      |
         |  ‾‾‾‾‾     |    |  ‾‾‾‾‾     |    |   ‾‾‾‾     |
         |   345      |    |    45      |    |     0      |
```

Partial Quotients

```
      100
       60
    +   9
    ‾‾‾‾‾
      169
```

Menu

5 x 10 = 50

5 x 100 = 500

Menu

5 x 6 = 30

5 x 60 = 300

Menu

5 x 9 = 45

Expanded Notation

845 divided by 5

Menu
5 x 10 = 50
5 x 100 = 500

5 x 6 = 30
5 x 60 = 300

5 x 9 = 45

$$
\begin{array}{r}
\color{green}{9} \\
\color{blue}{60} \\
\color{red}{100}
\end{array}
\Big] 169
$$

$$
5) \, 845 \\
\underline{-\ \color{red}{500}} \\
345 \\
\underline{-\ \color{blue}{300}} \\
45 \\
\underline{-\ \color{green}{45}} \\
0
$$

Long Division
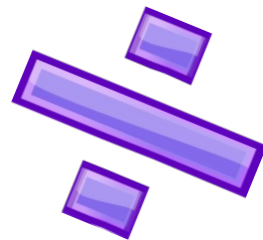
Standard: NC.4.NBT.6

Find whole-number quotients and remainders with up to **three-digit dividends** and **one-digit divisors** with place value understanding using rectangular arrays, area models, repeated subtraction, partial quotients, properties of operations, and/or the relationship between multiplication and division.

Things to Note...

- Students should practice problems in and out of context.

- Students will use multiplication and division facts along with place value knowledge to solve long division.

- Students will solve problems with remainders and be able to analyze remainders in real-life situations.

Contact Information

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KEEP CALM AND LOVE YOUR TEACHER

"I don't like long division; I always feel bad for the remainders."

ANDERSON