Mrs. Agriesti's Math Drill Hints

Thirds - $\frac{1}{3}$ - Memorize the fact that the result of dividing 1 by 3 is 0.3333…

- 0.3333… is a repeating decimal.
- For this exercise we must round to the thousandths place.
- The correct answer is 0.333

$\frac{2}{3}$ - Memorize the fact that the result of dividing 2 by 3 is 0.6666…

- 0.6666… is a repeating decimal.
- For this exercise we must round to the thousandths place.
- The correct answer is 0.667

Fourths - $\frac{1}{4}$ - Read this as "One quarter"

- Think, how much money if I have one quarter?
- The correct answer is 0.25

Fifths - $\frac{1}{5}$ - An easy method for changing fifths to their decimal equivalent is to first change them to tenths.

- To change to tenths do the opposite of what we do when we simplify fractions. i.e. we usually make the numerator and denominator smaller (reduce them) but for this we will double both of them (enlarging them).
- Once we have tenths, follow the hints below for tenths.
- Ex: $\frac{2}{5}=\frac{2\cdot 2}{5\cdot 2}=\frac{4}{10}$

Eights - $\frac{1}{8}$ - Eights with even numerators should be simplified.

- It is probably easiest to memorize the eights with odd numerators.
- The correct answers are:

$$\frac{1}{8}=0.125 \quad \frac{3}{8}=0.375 \quad \frac{5}{8}=0.625 \quad \frac{7}{8}=0.875$$

Tenths - $\frac{1}{10}$ - Think of dimes when working with tenths. There are ten dimes in a dollar.

- If I have $\frac{3}{10}$, I think 3 dimes or 0.30 (which is equal to 0.3)
- Another way to think of tenths is to use place value. The number 0.4 when read properly (like we learned in grade school) is "zero and 4 tenths".

Twentieths - $\frac{1}{20}$ - Think of nickels when working with twentieths. There are twenty nickels in a dollar.

- If I have $\frac{3}{20}$, I think 3 nickels or 0.15

Images from wikepedia.org

Mrs. Agriesti's Math Drill Hints

$\frac{1}{2} = 0.5$ 	$\frac{1}{3} = 0.33333\ldots = 0.\overline{3} \approx 0.333$ $\frac{2}{3} = 0.66666\ldots = 0.\overline{6} \approx 0.667$	$\frac{1}{4} = 0.25$ $\frac{2}{4} = \frac{1}{2} = 0.5$ $\frac{3}{4} = 0.75$ 	$\frac{1}{5} = \frac{2}{10} = 0.2$ $\frac{2}{5} = \frac{4}{10} = 0.4$ $\frac{3}{5} = \frac{6}{10} = 0.6$ $\frac{4}{5} = \frac{8}{10} = 0.8$	$\frac{1}{8} = 0.125$ $\frac{2}{8} = \frac{1}{4} = 0.25$ $\frac{3}{8} = 0.375$ $\frac{4}{8} = \frac{1}{2} = 0.5$ $\frac{5}{8} = 0.625$ $\frac{6}{8} = \frac{3}{4} = 0.75$ $\frac{7}{8} = .875$

Name of Polygon	*Number of Sides*
Triangle	3
Quadrilateral Rectangle Rhombus Kite Square Parallelogram	4
Pentagon	5
Hexagon	6
Heptagon	7
Octagon	8
Nonagon	9
Decagon	10
Dodecagon	12
n-gon	n

You need to know your multiplication facts up through the twelves. Here is a hint for twelves:

Since 12 is 11 plus 1. Multiply the number by 11 and remember the product. Now add one more of the number. Ex:

$9 \cdot 12 = ?$ $\qquad$ $9 \cdot 11 = 99$

$9 \cdot \ 1 = \ 9 \rightarrow 99 + 9 = 108$

Images from wikepedia.org