On the half day 11-25-15,
students worked with Mrs. Cole to figure out if Malia's strategy would work for each of the fractions.

We decided to think about a dollar, and how the denominators could be used to EQUALLY divide the dollar.

1 Malia found a "short cut" to find the decimal representation of the fraction $\frac{117}{250}$. Rather than use long division she noticed that $250 \times 4 = 1000$.

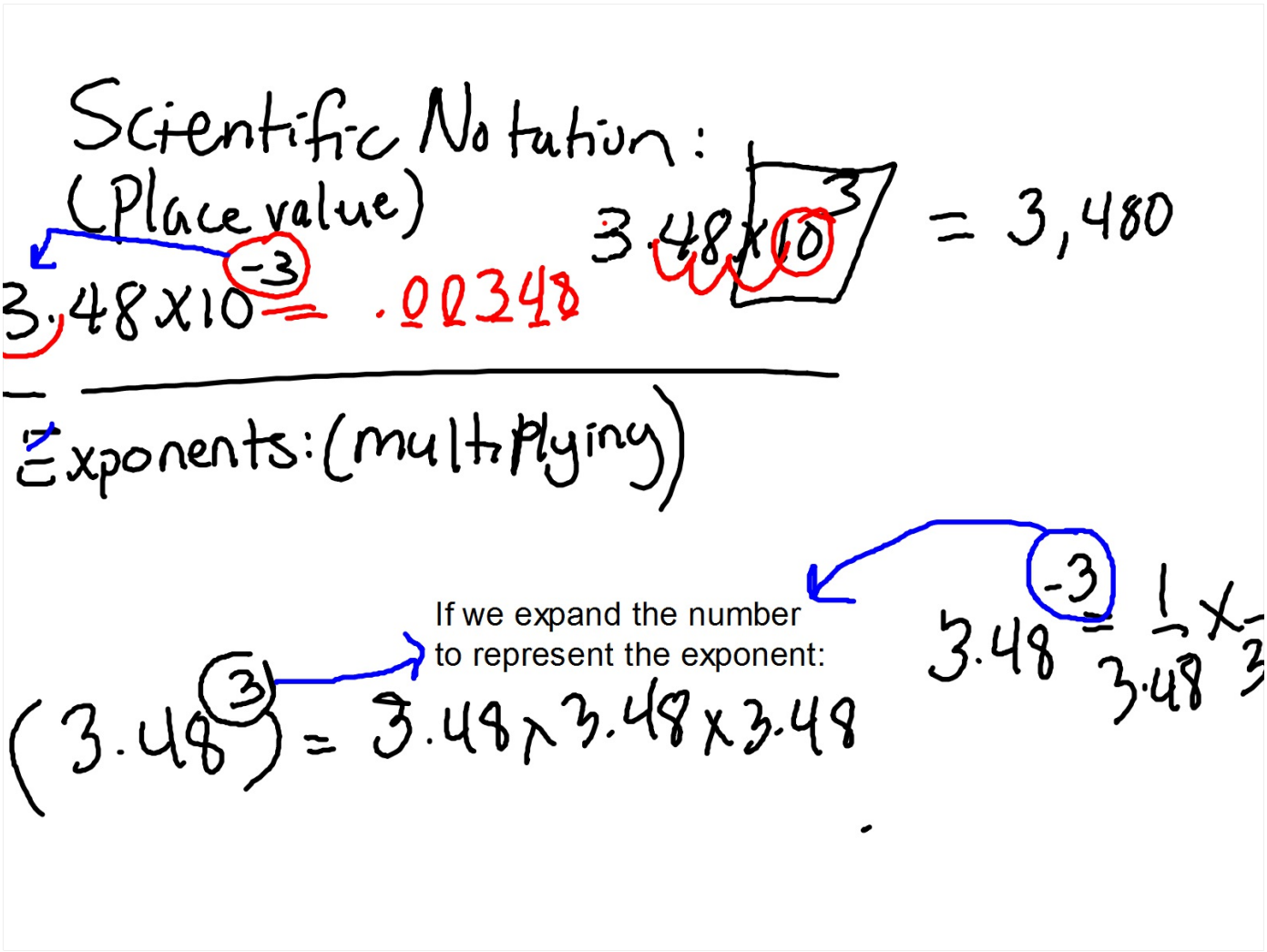
She then noticed that: $\frac{117}{250} = \frac{117 \times 4}{250 \times 4} = \frac{468}{1000} = 0.468$

(a) For which of the following fractions does Malia's strategy work to find the decimal representation?

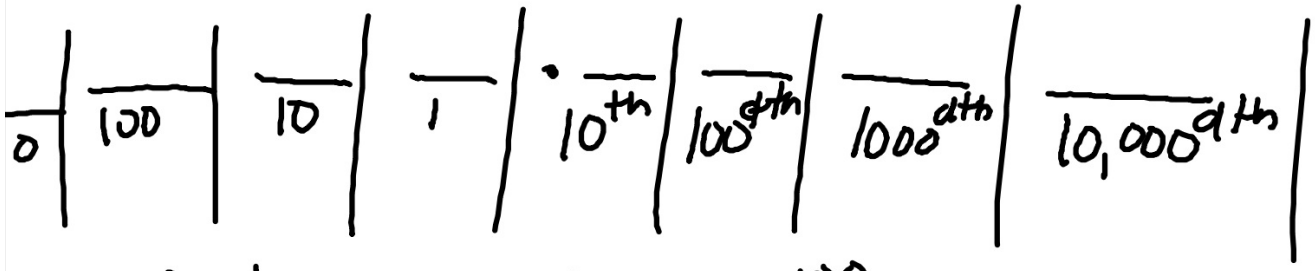
$$\frac{1}{3}, \frac{3}{4}, -\frac{6}{25}, \frac{18}{7}, \frac{13}{8}, -\frac{113}{40}$$

For each one for which the strategy **does** work, use the strategy to find the decimal representation.

(b) For what denominators will Malia's strategy work? Explain your answer.


Scientific Notation:
(Place value)
3.48x10^3 = 3,480
3.48x10^-3 = .00348
Exponents: (multiplying)
If we expand the number to represent the exponent:
(3.48)^3 = 3.48 x 3.48 x 3.48
3.48^-3 = 1/3.48 x

Place value differ in MULTITUDES of 10



$1 \times 10 = 10$

$10 \times 10 = 100$

$100 \times 10 = 1000$

$1000 \times 10 = 10,000$

smaller by 2 places

2.48×10^{-2} → Fraction.

We found fraction equivalences for scientic Notati

.0248 $\frac{248}{10000}$

Step 1- turn the notation to decim
Step 2-turn the decimal to fractior

3.68×10^{-4} → Fraction

.000368 $\frac{368}{1000000}$

$3,68 \times 10^{-4}$

-.000 $\frac{368}{1000000}$

This was Dorian N
Work