### Key Concept 1: Rounding

When we round a number we do **not** change it's place value

#### Key Concept 2: Multiplying by numbers with zeros

 Ignore the zeros, multiply the numbers
 Count the zeros, add them on

#### Key Concept 3: Estimation

- To estimate, we round the numbers to make the calculation EASY to do in our head. If you have to write it out to solve it, it is not an estimation
   We are finding an approximate answer
- We are finding an approximate answer
  Normally round numbers to 1 significant figure

### Key Concept 4: Dividing by numbers with zeros

1. Cross off the **same number** of zeros in both numbers.

Divide
 (Do not put the zeros back on!)

# Key Concept 5: Adding and Subtracting Decimals

Line up the decimal points so that the place values are lined up

## Key Concept 6: Multiplying by decimals

1. Ignore the decimal points, multiply the numbers

2. Count the number of decimal places in the question, count the same number in the answer

# Key Concept 7: Dividing a decimal by a non-decimal

Divide, making sure to line up the decimal points If there is still a reminder, add on zeros and keep dividing

### Key Concept 8: Dividing by a decimal

 Move the decimal point the same number of places in both numbers so that you are no longer dividing by a decimal.

2. Divide

(Do not move the decimal back)

### Key Concept 9: Scientific Notation (Standard Form)

- 1. The decimal point goes after the first nonzero number
- The power of ten tells how many places the decimal point has moved positive = big number; negative = small number