

## Decimals

### ADDITION OF DECIMALS

- 1) Line up the decimal points of the numbers to be added.
- 2) Add the numbers. Keep the decimal points in the answer in the same place.

Example:

265.85
+ 91.56
<u>+ 4001.6</u>
4359.400

### SUBTRACTION OF DECIMALS

- 1) Line up the decimal points of the numbers to be subtracted.
- 2) Add zeros at the end of the first number if it doesn't have enough decimal places.
- 3) Subtract the numbers. Keep the decimal in the answer at the same location.

Example:

3673.9000
- 853.6834
<u>- 2420.2166</u>
2370.0000

### MULTIPLICATION OF DECIMALS

- 1) Line up the numbers so their last digits are in the same column.
- 2) Multiply as with whole numbers.
- 3) The number of decimal places in the answer is the same as the number of decimal places in the question.

Example: 2.33    2 decimal places  
 $\times 1.2$     1 decimal place  
233  
233  
3029

Answer has 3 decimal places: 3.029

### DIVISION OF DECIMALS

- 1) Make the divisor (the number you divide by) into a whole number by moving the decimal point.
- 2) Move the decimal point in the dividend (the number you divide into) the same number of places in the same direction.
- 3) Divide as normal. The decimal point in the answer is above the decimal point in the new dividend.
- 4) If the division does not come out even, add a zero at the end of the dividend and keep going until you have enough decimal places.

Example:  $51.59 \div 13.4 = ?$

Move the decimal place in the divisor one place to the right to make 134.

Move the decimal place in the dividend one place to the right to make:

3.85	←
↓↓↓	→
134	←
4.92	→
1139	←
1072	→
670	←
670	→
0	

515.9.

- 5) If the answer needs to be rounded to a certain number of decimal places, divide until you have one place too many, and round to that number.