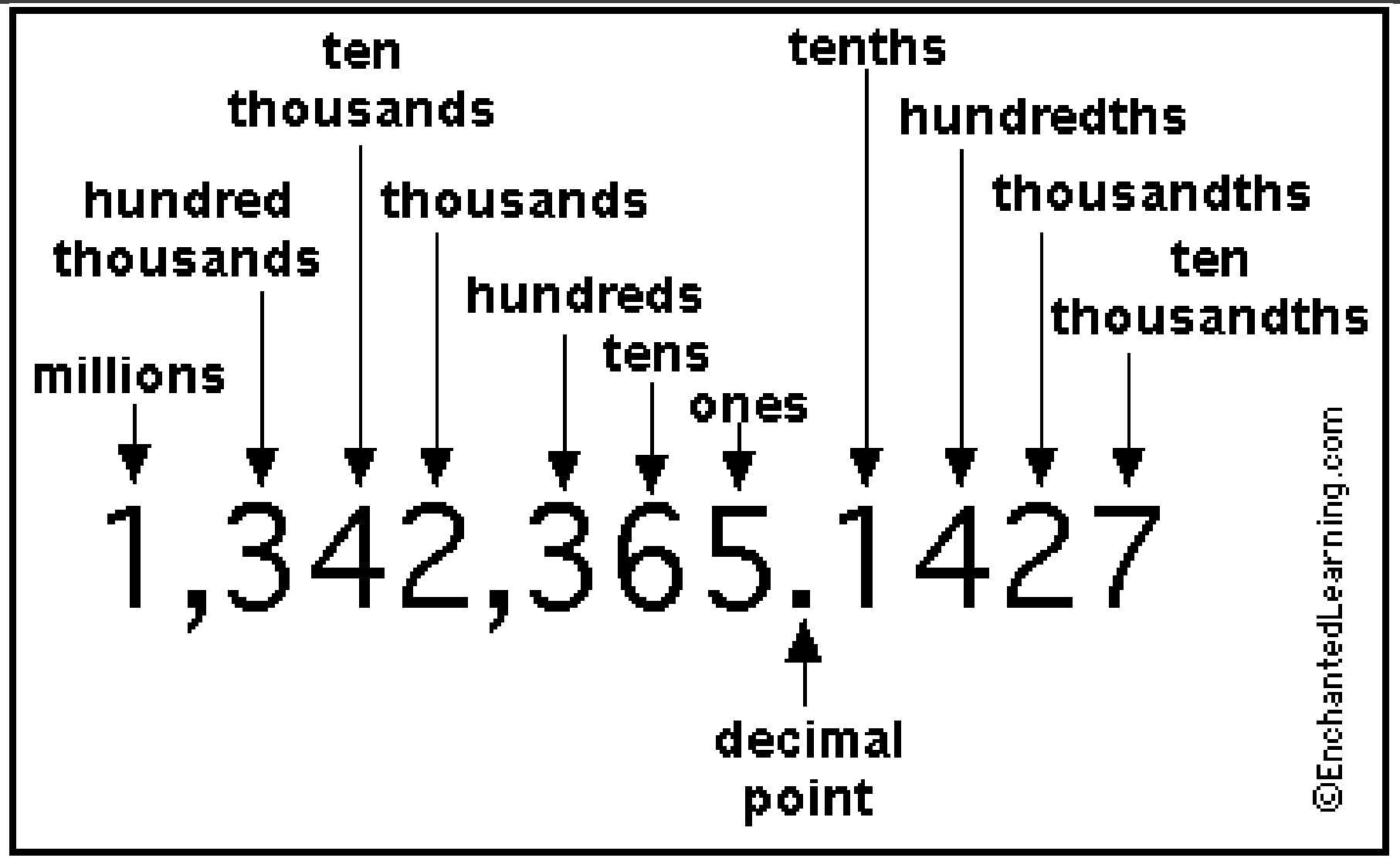
Place Value and Writing Numbers

Follow along using your text book (Page 203)

***DO NOT USE A CALCULATOR unless I tell you to

Place Value


millions
hundred thousands
ten thousands
thousands
hundreds
tens
ones
tenths
hundredths
thousandths
ten thousandths
1,342,365.1427
decimal point
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Standard form

- Standard form is a number written as a numeral:

- Example
  1) Four thousand twenty and five tenths
     - 4020.5
  2) Sixteen and forty-four hundredths
     - 16.44

- Your turn complete 3 to 5 (page 203) on your own

Write in Words

- Converting from Standard form to Words

6) 112.7
   - 0ne hundred and twelve and seven tenths

7) 2036.08
   - two thousand and thirty-six and eight hundredths

8. 59.006
   - Fifty-nine and 6 thousandths

- Your turn complete # 9, 10 and 11 (page 203) on your own.

Rounding

- Remember the rules
  - If the number after the digit you are rounding is 4 or smaller the number stays the same
  - If the number after the digit you are rounding is 5 to 9 the number is rounded up by one.

12) 14.659 to the nearest tenth
  - 14.7

13) 425.17 to the nearest one
  - 425

- Your turn complete # 14, 15 and 16 (page 203) on your own.

Multiplying

- When **multiplying** by factors of 10 it determines which way the decimal goes and how far

  - If we **multiply** by **10** the decimal moves **one (1)** place to the **right**
  - If we **multiply** by **100** the decimal moves **two (2)** places to the **right**
    - For every zero (0) added we move one more decimal place to the **right**

  - If we **multiply** by **0.1** we move the decimal **one (1)** place to the **left**
  - If we **multiply** by **0.01** we move the decimal **two (2)** places to the **left**
    - For every zero (0) added we move one more decimal place to the **left**

Multiplication Practice and Assignment (page 203 of textbook) – format is not the same as book check the numbers

17) 5.68 x 10 = 56.8

18) <u>Try yourself</u>

19) 0.036 x 1000 = 36

20) <u>Try yourself</u>

21) 2.73 x 0.01 = 0.0273

22) <u>Try yourself</u>

23) 4652 x 0.001 = 4.652

24) <u>Try yourself</u>

Dividing

- When dividing by factors of 10 it determines which way the decimal goes and how far

  - If we **divide** by **10** the decimal moves **one (1)** place to the **left**
  - If we **divide** by **100** the decimal moves **two (2)** places to the **left**
    - For every zero (0) added we move one more decimal place to the **left**

  - If we **divide** by **0.1** we move the decimal **one (1)** place to the **right**
  - If we **divide** by **0.01** we move the decimal **two (2)** places to the **right**
    - For every zero (0) added we move one more decimal place to the **right**

Division Practice and Assignment (page 203 of textbook) – format is not the same as the book check the numbers

25) 2.76 ÷ 100 = 0.0276

26) <u>Try yourself</u>

27) 562.19 ÷ 1000 = 0.56219

28) <u>Try yourself</u>

29) 7.8 ÷ 0.01 = 780

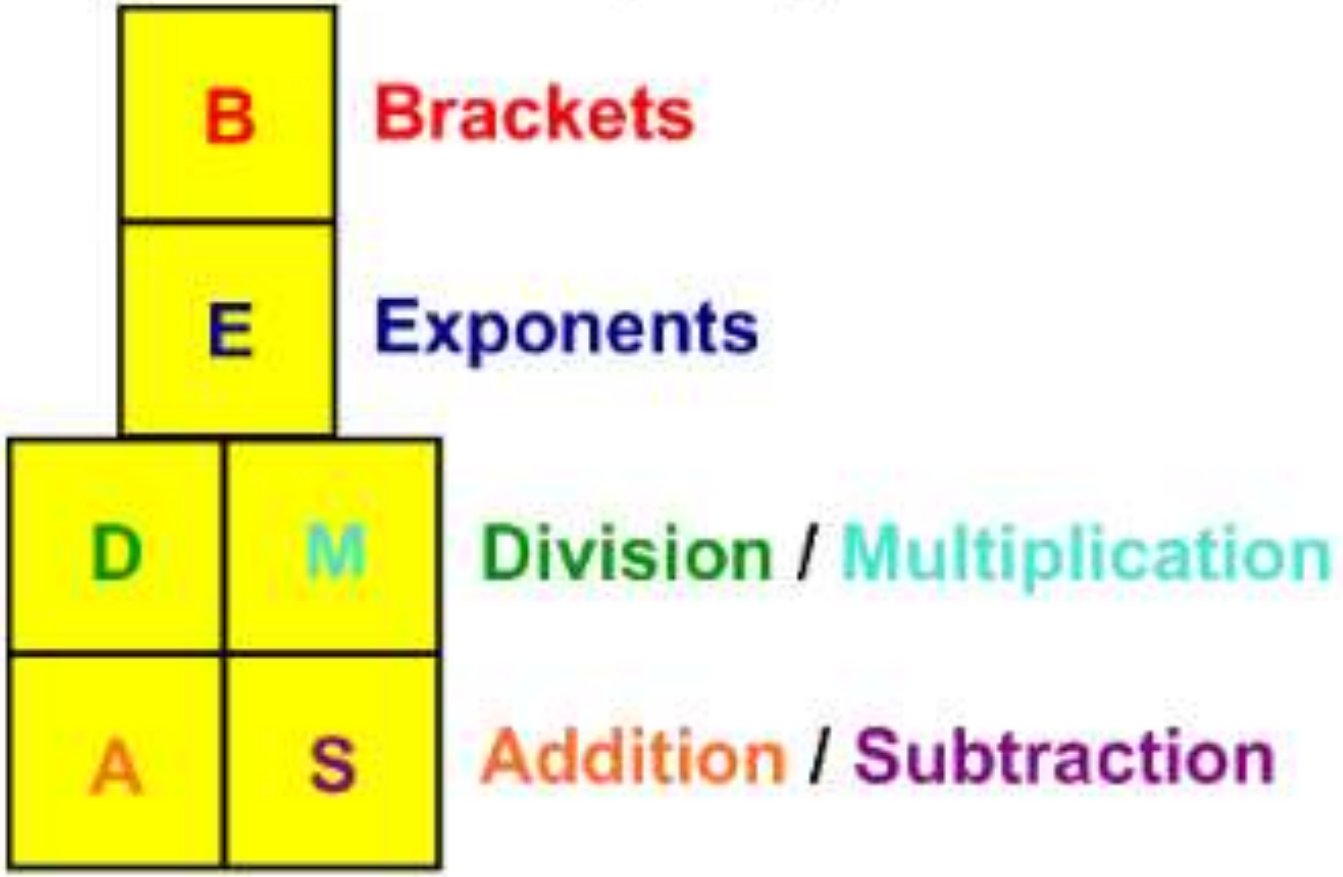
30) <u>Try yourself</u>

31) 246.115 ÷ 0.001 = 246115

32) <u>Try yourself</u>

BEDMAS

We use BEDMAS to solve problems with multiple operations.



Calculate (may use a calculator for this section)

33) 15.73 + 28.04 + 21.98 = 65.75

34) Try yourself

35) 5 x 12.3 + 2 x 16.9 = 58.4

36) Try yourself

37) 5 x 16.2 + 8.3 x 12.5 = 184.75

38) Try yourself

39) 15.4 x27.6 – 9.2 x 10.8 = 325.68

40) Try yourself