

Conversions:

$$1 \text{ inch} = 25.4 \text{ mm}$$

$$1 \text{ foot} = 12 \text{ inches}$$

$$1 \text{ yard} = 3 \text{ feet}$$

$$1 \text{ mile} = 5,280 \text{ feet}$$

$$1 \text{ mile} = 1,760 \text{ yards}$$

Formulas:

$$\text{A) Square} = s^2$$

$$\text{(A) Rectangle} = l * w$$

$$\text{(A) Circle} = \pi r^2$$

$$\text{Volume} = l * w * h$$

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Quarterback Rating

$$\frac{25 + 10(\%COMP) + 40(\%TD) - 50(\%INT) + 50(YD)}{12}$$

Batting Average: $\frac{\textit{Total Hits}}{\textit{At-Bats}}$

Total hits= S+D+T+H

Slugging= $\frac{1(S)+2(D)+3(T)+4(H)}{AB}$

Fog index

$$\text{Grade level} = .4 \left(\frac{\text{Number of words}}{\text{Number of sentences}} \right) + 100 \left(\frac{\text{Number of COMPLEX word}}{\text{Number of words}} \right)$$

A complex word is defined as a word with **3 or more syllables** EXCEPT in the following cases

- The third syllable is -ed, -es, -ing
- If the word is a proper noun
- If the word is a HYPENATED compound word