# Order of Operations and Applications in Geometry

**Ex 1.**

Evaluate the following. You may use a calculator, but show the order of operations step-by-step.

$(1.5)^2 + 2.52 \div 0.4(-0.6)$

**Ex 2.**

Evaluate by converting all decimal numbers into fractions, then using order of operations. Write your answer as a decimal rounded to the nearest hundredths place. You may use a calculator.

$\frac{2}{3} \cdot \sqrt{0.0004} - 4.7$

## GPA (Grade Point Average)

Here's how to calculate a GPA (which is a **weighted mean**):

$$\text{GPA} = \frac{\text{total grade points}}{\text{total credits}}$$

(Note: with GPA's, another word for "credit" is "unit".)

| Grade | Grade Points Per Credit |
|---|---|
| A | 4 |
| B+ | 3.5 |
| B | 3 |
| C+ | 2.5 |
| C | 2 |
| D+ | 1.5 |
| D | 1 |
| F | 0 |

**Ex 3.**

Suppose you get an A in Math (a 3.0 credit class), a B in History (a 4.0 credit class), an A in Accounting (a 5.0 credit class), and a C in Sociology (a 3.0 credit class). What is your GPA (assuming those are the only classes you've taken)? Round your answer to the nearest hundredths place.