Week 2

Solving Percent Problems

MA123: Mathematical Reasoning & Modeling (Spring 2021)

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Example 1:

Compute 40% of 1900.

Base Percent Equation

$$\text{Amount(A)} = \text{Percent(P)} \times \text{Base(B)}$$

$$A = P \times B$$

Example 2:

2% of what is $6.42.
Write the percent (as a decimal), the base and the amount (round to the hundreths place).

Base Percent Equation

$$\text{Amount}(A) = \text{Percent}(P) \times \text{Base}(B)$$

$$A = P \times B$$

Example 3: What is 110% of 161?
Identify the percent, the base, and the amount. Write the percent as a decimal.

Base Percent Equation

$$\text{Amount(A)} = \text{Percent(P)} \times \text{Base(B)}$$

$$A = P \times B$$

Example 4: What percent of 41 is 24.6? Identify the percent, the base, and the amount. Round to two decimal places if need be.

Example 5:

All books are 25% off of the original price at the bookstore. If a book normally costs $20, what is the sale price of the book?

Example 6:

When playing basketball, Austin makes 40% of his free throws. In a recent game Austin attempted 40 free throws. How many free throws would you expect him to make?

Example 7:

Suppose your school costs for this term were $9560 and financial aid covered 75% of that amount.
a) How much did financial aid cover?
b) How much do you still have to pay?