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38% MATH 1030 #5a 17/100

Use and Abuse of Percentages

Percentage

142% 33 1/3%

<u>Basic Percent Problem Set-up</u>

_____ is _____% of _____

There are three questions to be asked:

1. There is a 40% discount on a $500 item. What is the discount amount?

2. Candy was eaten by 192 people at the Halloween party. That is 80% of the people in the town. How many people are in my town?

3. Macey scored 78 out of 120 on the last midterm. What percent is this?

Percent means per 100 or out of 100.

$$p\% = \frac{p}{100}$$

Percents can be used to
- Describe a fraction of a total

ex I ate 25% of the pizza.

- Describe a change

ex As I have aged, my height is now only 95% of my height at age 20.

- Compare

ex Looking for my class textbook, I noticed the price at the campus store was 110% of the price online.

EX 1: Determine an answer for each of these.

a) Thirty-five students were absent. This was 5% of the
   students in the school. How many students are in the school?

b) The price of a gallon of milk fell 3% last week to $3.80. How much
   was it prior to last week?

c) This light bulb will last 130% longer than the old one. The old
   one was good for 3 years. How long will this one last?