

EX 1 Eighty percent of students need a review before moving on to a new topic. If there are 48 students in the class, how many need a review?

Describing Change

Absolute Change = new value - reference value to describe change)

Ex Last year, the price of gas was about \$3.45/gallon. Now, the price of gas is about \$3.20/gal. The absolute change is 3.45-3.20=0.25/gal.

Relative Change = absolute change reference value.

ex for above example, 0.25 = 7.25 % decrease.

EX 2: You bought a car for \$17,500. Now it is worth \$5,000. Find the absolute and relative change in the car's value.

- EX 3: Find the relative change when a quantity
 - a) triples.
 - b) quadruples.

Comparing with Percents

(Using percentages for comparisons)

Absolute difference = compared value - reference value.

Ex My height is 65.5" and my best friends height is 68". abs. diff = 68-65.5 = 2.5"

Relative difference = absolute difference reference value

Ex For above example (i.e. my fiend is 1.e. diff. = 2.5 = 3.82% (3.82% taller than I am)

EX 4: Compare the life expectancy in Canada (81.2 years) to life expectancy in Russia (65.9 years).

Of vs More or Less Than

A stock has gone to: 150% of the original price.

150% more than the original price.

50% less than the original price.

- EX 5: State each answer as a percent.
 - a) Saul earns 45% more than Carrie. How many times larger is his income?

b) A store is having a 40% off sale. How does the item's price compare with that of the original?

c) The area of Colorado is 24% less than the area of Norway. Norway's area is what percent of Colorado's?