

9.4 Percent Change

NOTES

Math 7

Write your
questions here!



Ex 1: Brust is super strong. His original lift was 50 pounds, but now he can lift 70 pounds! Describe the change in lift.

Original:

New:

Original:

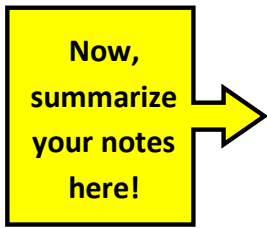
New:

Ex 2: Kaiserslautern High School had 630 students to start the year. By the end of the year they had 580 students. Describe the change in population.

Ex 3: Kamiko scores 12 points in her first basketball game of the season. In her second game she scores 25 points. Describe the change in points scored.

You try: Mr. Kelly has had some varying degrees of craziness over the years. Santa Kelly had a score of 74.5 on the crazy scale but Pirate Kelly had a score of 122.4! Describe the change in his craziness score.

SUMMARY:



9.4 Percent Change

PRACTICE

Find the percent change. Label as increase or decrease. SHOW ALL WORK!!!

1)
Original: 34
New: 52

2)
Original: 97
New: 78

3)
Original: 134
New: 187

Find the percent change. Label as increase or decrease. SHOW ALL WORK!!!

4) Mr. Kelly bought the car of his dreams! He purchased a brand new Tesla for \$85,000! However, cars depreciate in value as soon as they are driven off the lot. When he gets home and realizes that he no longer wants the car he can only sell it for \$72,000. Describe the percent change in value of his Tesla.

5) Jumbo jets can currently carry about 600 people on Transatlantic flights. It is predicted that by 2040 planes will be able to carry up to 1400 people on flights. Describe the percent change in the number of passengers on a flight.

6a) Mr. Sullivan weighed 210 pounds before the start of the pandemic. By the end of the pandemic he weighed 235 pounds. Describe the percent change in his weight during the pandemic.

6b) After six months of working out Mr. Sullivan went from his 235 pounds back to his pre-pandemic weight of 210 pounds. Describe the percent change in his weight.

7a) Amazon normally sells the new Apple Airpod Pro Plus Limited Edition Earpods for \$400. However, they are on sale for \$250. Describe the percent change in price.

7b) Mr. Kelly bought a pair of the Earpods at the sale price of \$250. He sold them to Mr. Brust for \$400. Describe the percent change in price that Mr. Kelly sold the Earpods for.

8) Last season the Ohio State women's basketball team won 13 games. This year they won 25! Describe the present change in wins for the Ohio State women's basketball team.

1) Last year there were a total of 27 students who had a D or an F in Mr. Brust's classes. This year there are only 5 who have a D or an F. Describe the percent change of students with Ds or Fs in Mr. Brust's class from one year to the next.

2) The Algebros open up an electronics store. They had a massive sale one July. They took \$75 off any purchase over \$450. At the same time the store gave a 20% off sale. The 20% discount is taken after the \$75 is taken off. What is the price of a television that originally costs \$2500 after both discounts.

3) At the Alg-Electronics store, the total sales for November was \$113,500. The total sales for December was \$144,000. What is the percent increase in sales from November to December?

EXIT TICKET –

Mr. Brust and Mr. Bean had a weight loss competition. Mr. Brust started at 210 pounds and ended up at 185 pounds. Mr. Bean started at 150 and ended at 130.5 pounds.

Construct a viable argument on who did better at the weight loss challenge.