

Quiz in Class on Wednesday, April 28, Day 27.
Use the data on page 114.

1. How many more US units than International units did Pizza Hut have in 1997?

Answer: $8640 - 3894 = 4746$ more units

2. What was the ratio of US units to International units for Pizza Hut in 1997?

Answer: $8640/3894 = 2.2188$

3. US units were what percentage of International units for Pizza Hut in 1997?

Answer: $2.2188 = 221.88\%$

4. In the six-year growth column, one of the entries is 6%. Explain what numbers were used to get that.

Answer: This is percent growth. So they took

$\text{KFC International 2001} - \text{KFC International 1996} = 6416 - 4783 = 1633$ for the amount of growth.

For percent growth, we need the amount of growth divided by the beginning number, so that's $1633/4793 = 0.3414 = 34.14\%$.

Clearly, that's a much larger percentage growth than is indicated in the table. So what is going on?

KFC International grew by 34.14% over six years, so the average percent growth per year is $34.14\%/6 = 5.69\%$, which is about 6%.

Quiz in class on Monday, May 3, Day 28.
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6. Round Table and Dominos at about 165 calories

7. PH is about 305 calories and LC is about 140 calories. Difference $305 - 140 = 165$ calories. So PH slice is about 165 calories more than a LC slice.

8. I'd want to know the size of the slice. There are other reasonable answers too. But an answer such as "I want to know the calories per slice in a sausage pizza" is not a correct answer because that doesn't give you something relevant to interpreting THIS graph, which is about cheese pizza slices.

9. We need $\text{Domino}/\text{PH} = 175/305 = 0.57 = 57\%$

Quiz in class on Wednesday, May 5, Day 29.

Use the data on page 141. For each of these three restaurants: Pizza Hut, Taco Bell, KFC, answer these three questions:

- a. What is the amount of change in the number of restaurants worldwide from 1997 to 2001?
- b. What is the percent change in the number of restaurants worldwide from 1997 to 2001?
- c. Is this an increase or a decrease?

PH: a. $11,991 - 12,534 = -534$

b. $-534/12,534 = -0.04332 = -4.332\%$

c. Decrease

TB: a. $6683 - 6941 = -258$

b. $-258/6683 = -0.037117 = -3.7117\%$

c. Decrease

KFC: a. $11,815 - 10,237 = 1578$

b. $1578/10237 = 0.154147 = 15.4147\%$

c. Increase