

Original:

5.

Percent of Change Worksheet

Period

Directions: State whether each percent of change is a percent increase or a percent decrease. Then find the percent of increase or decrease. Round to the nearest whole percent.

6.

8.

- Original: \$100 New: $\frac{59-100}{100} = \frac{41}{100} = 0.41$.41(100) = 41% decrease
- Original: 2. 324 people 549 people New: 549-324 225 - 0.694 324 324 0.194(100) = 19 % increase
- Original: 58 Homes 3. 152 Homes New: 152-58 = 94 = 1.62 1.62 (100) = 162 % Increase
- Original: 66 Dimes 30 Dimes New: 30-66 = -36 = -0.545 0.545 (100) = 55% decrease

15.6 liters

231.2 mph

Original:

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- \$75 New: 75-53 = 22 = 0.415 0.415 (100) = 42% increase
- New: 11.4 liters 15.4 - 15.6 - 4.2 - 15.6 - 0,269 0.300 (100) = \$7% decrease
- Original: \$3.78 7. \$2.50 New: 2.50-3.78 - 1.28 = -0.339 0.339 (100) = 34% decicase
- 236.4 mph New: 23/4-23/2 = 5.2 = 0.022 0.022 (100) = 2% increase

Directions: Find the final price of each item. When there is a discount and sales tax, first compute the discount price and then compute the sales tax and final price.

- 9. DVD: \$219 sales tax: 6.5% \$219 (1.065) = (\$233.24
- \$39.99 Discount Price 10. jeans: 15% discount: 39.99 - 39.99 (0.15) sales tax: 4%= 23.99 Flustax = 33.99 (1.04)
- 11. book: \$19.95 12. tickets: \$52.50 discount: 5% sales tax: 7% sales tax: 5% DISCOUNT PRICE: 19.95-19.95 (0.05)
 - * 52.50 (1.07) = 56.18

= 18.95 Plus Tax: 18.95(1.05)=(+19.90)



Solve each problem.

1) In February Roger spent 44 hours watching Netflix. In March he only spent 25.52 hours watching. What was the percent decrease in the amount of time he spent watching?

0.42 (100) = 42% decrase

Answers

2) At a restaurant the bill came to \$54.00. If you leave \$61.56, what percent tip is that?

Change = 61.56-54 = 0.14 0.14(100) = 14%

3) A library normally collected \$56.00 in fees a month. But in March they collected \$84.00. What is the percent increase in the number of fees collected in March?

Change - 84-56 - 0.5

0.5(100) = 50%

4) A pole was supposed to be 14 meters long, but it was accidentally made 21 meters long. The pole is percent longer than it needs to be.

Change = 21-14 = 0.5

0.5(100) = 50% New : 21:15

5) The price for internet on a phone was \$10.00 a month, but starting in November the price will be \$13.20 a month. This is a % increase.

Change: $\frac{13.2-10}{10} = 0.32$ 0.32L(00) = 32% New $\frac{13.2}{10} = 1.32$

6) Last year a fishing license cost \$59.00. This year the license will cost \$44.84. This is a percent decrease.

Charge: 59-44.84: 0.24 (100) = 24% New 44.84: 0.76

7) A store sold 13.00 dollars worth of gift cards in October. The next month the goal was to sell \$17.16 worth of gift cards. This is an increase of percent.

Change: 17.16-13 = 0.32 0.32 (100) = 32% New 17.16 1.32

8) Isabel's family decided to get rid of their cable TV. Originally they were paying \$143.00 for the TV, internet and phone, but now they're paying \$125.84. What was the percent the bill decreased by? 143-125.84 0.12 0.12(100) - 12% New 125.84 0.88

9) A store normally averaged 102 customers a day. But on the weekends they averaged 75.48 customers a day. What is the percent decrease in the number of customers?

Change: 102-75.48: 0.26 (100) = 26%

New : 75.48 0.74

10) Normally a game costs \$33.00. But the new special edition version is going to be \$39.60. This is an increase of percent.

Change: 39.60-33. 0.20

0.20(100)=20% New 3911.2

1-10 90 80 70 60 50 40 30 20 10 0