

**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.

- Original: New:
- \$100
- 2. Original: New:
- 324 people 549 people
- 69%

- (549-324)·100 = 697.
- 169 % remaining means a 69

- 3. Original: New:
- 58 Homes 152 Homes 127.
- 4. Original: 66 Dimes New: 30 Dimes
- 55% = 0.45

- 1.100 = 1627
- 262 % vanauning is a 162% moreage
- 45% remaining

- 5. Original: \$53 \$75 New:
- 42%1
- 6. 15.6 liters Original: 11.4 liters **27%** New:

- (53)·100 = 41%
- 142% remaining
- 11.4 = 0.73 73% remaining

- \$3.78 Original: \$2.50 New:
- 8. Original: New:
- 231.2 mph 236.4 mph

**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
- 10. jeans:
- \$39.99 15%

4%

7%

3299 (.15) = 600 Discount

6.5% sales tax:

- discount: sales tax:
- 39.99 -6 = 33.99 Kew Price

219 (0.065)= 14.24 Tax 114+14,24=253.24 Price

5%

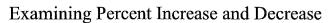
- 33.99 (.04) = 1.36 Taxon 33,99+1.36 = 35,36

11. book:

- \$19.95
- 12. tickets: sales tax:
- \$52.50

- discount: sales tax:
- 19.95 19.95 (.05) = 18.95 Decounted
- 52.50+ 52.50(0.07)= 56.18

- 18.95 + 18.95 (.09) = 19.90
  - 5% tax of discounted Price



Name:

## 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?

25.52 = 0.53 53% of the initial amount, so 42% is missing

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

61.56 = 1.14 114% of original bill which is 14% increase

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?

150% of usual 84 . 1.9 which is 50 % more than normal

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.

to be.

150% of the

21 = 1.5 correct length so

14's 55% were.

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.

$$(\frac{13.20-10}{10})\cdot 100 = 32\%$$

13.20 = 1.32 Price which is a 32% increase

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

76% of the old trice which 15 a 24% Secrease.

A store sold 13.00 dollars worth of gift cards in October. The next month the goal was to 132% of the origina sell \$17.16 worth of gift cards. This is an increase of percent. amount which us

$$\left(\frac{17.16-13}{13}\right) \cdot 100 = 32.7$$
  $\frac{17.16}{13} = 1.32$ 

ever the original 100%

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?  $(125.84 - 143) \cdot 100 = -12.7$  (25.84) = 12.7

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?

19.48-102).100 = -267

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.

39.60-33 ).100 = 20%

120% of the normal 39.60 = 1.2 price which is a ADO increase.

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

Answers