Increase/Decrease Problems

Name: _____ Score: _____

Solve the following percentage problems and show your workings.

1. The normal price of a pair of sneakers is $200. This week the sneaker were on sale for only $150. By what percentage did the price decrease?

2. Yesterday the price of a kilogram of bananas was $2.50. Today the price was raised to $3. By what percentage did the price increase?

3. The price of a liter of gasoline increased 20% compared with last year. If the new price is $1.44 per liter, what was last year's price?

4. Peter earns $12.50 per hour. After complaining about his low pay, his boss decided to give him $2.50 more per hour. What percentage did his pay go up?

5. John kept 4,000 dollars in his bank account. After 6 years he had $5,200 in his account. By what percentage did his bank balance grow?

6. The rent on my house is $2,000 a month. My greedy landlord decided to increase the rent by a whopping 20%. What is the new monthly rent I have to pay?

Answers

Solve the following percentage problems and show your workings.

1. The normal price of a pair of sneakers is $200. This week the sneaker were on sale for only $150. By what percentage did the price decrease?

(200 -150) ÷ 200 x 100 = 25%

2. Yesterday the price of a kilogram of bananas was $2.50. Today the price was raised to $3. By what percentage did the price increase?

(3 -2.5) ÷ 2.5 x 100 = 20%

3. The price of a liter of gasoline increased 20% compared with last year. If the new price is $1.44 per liter, what was last year's price?

1.44 ÷ 1.2 = $1.20

4. Peter earns $12.50 per hour. After complaining about his low pay, his boss decided to give him $2.50 more per hour. What percentage did his pay go up?

2.50 ÷ 12.50 x 100 = 20%

5. John kept 4,000 dollars in his bank account. After 6 years he had $5,200 in his account. By what percentage did his bank balance grow?

(5,200 -4,000) ÷ 4,000 x 100 = 30%

6. The rent on my house is $2,000 a month. My greedy landlord decided to increase the rent by a whopping 20%. What is the new monthly rent I have to pay?

2,000 + (2,000 x 0.2) = $2,400