

Opener

1. Joe borrowed \$20,000 from the bank at a rate of 7% interest per year. How much interest will he pay over 5 years?
2. Martin finds a shirt for \$20 at a store. The sign says it is 10% off the original price. Martin must also pay 8.5% sales tax. What is the final cost of the shirt?
3. A ticket to a play costs \$50. There is a 5% transaction fee. What is the total cost of the ticket?

Jun 15-8:14 AM

Learning Target
I can work backwards to find original prices.

Jun 15-8:17 AM


Working Backwards

Problem: Alisha purchased an item on sale 10% off for \$36. What was the original price of the item?

When working backwards through problems, we have to use _____ operations (operations that are opposites). Normally we _____ price by percent to find the markup or mark down, but in order to find the _____ price, we have to _____.


Jun 15-8:18 AM

1. After 6% tax, a new pocketbook cost Sarah \$27.55. What was the original cost of the pocketbook?



Jun 15-8:19 AM

2. Carter bought a Captain Hook boat on sale 25% off for \$28.50. What was the original price of the boat?



Jun 15-8:19 AM

3. It cost Isabelle \$20.14 for a Barbie Doll after 6% sales tax. What was the original price of the Barbie?



Jun 15-8:19 AM

4. After my 20% teacher discount, a new desk will cost me \$68. What is the original price of the desk?



Jun 15-8:20 AM

white
boards :)

Oct 6-9:42 AM

1. I bought a new Keurig coffee pot for \$127.80, which included 6.5% sales tax. What was the original price of the Keurig?

Oct 6-9:42 AM

2. Concert tickets cost \$40 a piece before the 6% tax and additional 3% processing fee. What is the price of a ticket after all the extra fees?

Oct 6-9:44 AM

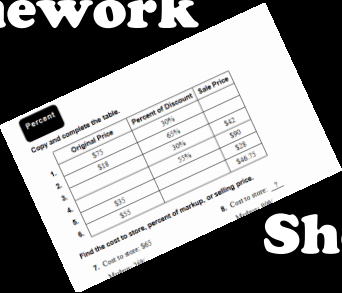
3. A set of 4 barstools were priced \$284.80 after a 20% discount was applied. What was the original price of the set of barstools?

Oct 6-9:45 AM

4. A pair of sunglasses cost \$16.79 after 5% sales tax. What was the original price of the sunglasses?

Oct 6-9:46 AM

Homework



Percent

Copy and complete the table.

| Original Price | Percent of Discount | Sale Price |
|----------------|---------------------|------------|
| \$75 | 30% | \$52 |
| \$38 | 25% | \$28 |
| | 50% | \$29 |
| | 75% | \$46.75 |

1. Find the cost to store, percent of markup, or selling price.

2. Cost to store: \$65

3. Markup: 15%

4. Selling price: _____

5. Cost to store: \$45

6. Markup: 20%

7. Selling price: _____

8. Cost to store: \$12

9. Markup: 30%

10. Selling price: _____

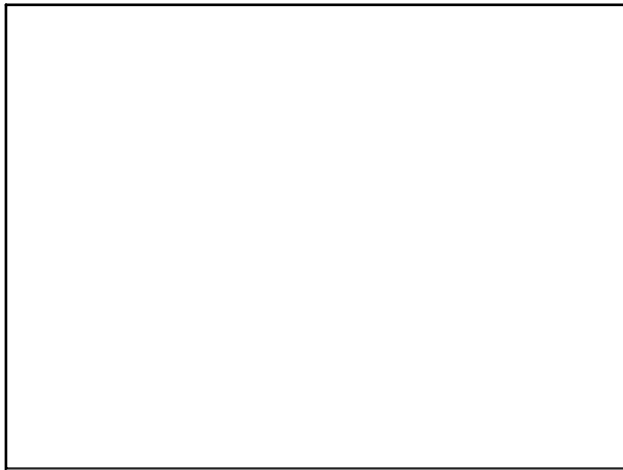
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Jun 15-8:24 AM

Summary

When you work backwards what type of operations do we use?

Jun 15-8:17 AM



Oct 6-9:40 AM