

Store sales can be confusing. Check out the price tag for those \$80 jeans. They're reduced by 25% percent, right? But the store sign says you'll get another 25% percent off at the register. Does that mean the jeans are 25%+25%, or 50%, off? Since 50% is half off, does this mean the jeans only cost \$40?

Actually, they will cost a little more. Surprised? To know the final price, it helps to understand the math behind multiple markdowns.

OF WHAT?

When you talk about a "percent" of something, you're talking about a part of a whole — a part of 100%. But what is the 100%? In other words, "What's the WHOLE you're taking a PART of?"



In this bargain sale, the label says you can take 25% off the original price. So 25% is the **PART**. But again, **OF WHAT**? What's the **WHOLE**?

The **WHOLE** (100%) is \$80, the original price of the blue jeans.

WHAT'S THE SALE PRICE THEN?

Step 1: Figure out 25% of the WHOLE by changing the percent to a decimal and multiplying.

Like this: $80 \times 0.25 = 20$

Step 2: Subtract the PART (25%) from the WHOLE to get the sale price. Like this: \$80 - \$20 = \$60



Did you <u>k</u>now?

Here is another way to find the **PART** of this **WHOLE**:

25% is one quarter or 1/4 of 100% (think of the four quarters -25%— in a dollar). When you quarter something, you divide it into four parts. So divide \$80 into four parts, and subtract one of them for the new price.

\$80 ÷ 4 = \$20 \$80 - \$20 = \$60

TV411 THINK **MATH**

Now you know that the sale price is \$60. But don't pay yet! You get an additional markdown at the register — another 25%.

But 25% OF WHAT? This time, you have a new WHOLE — \$60.

NOW DO THE MATH

REPEAT THE SAME TWO STEPS. **Step 1:** What is 25% of \$60?

Step 2: What's the final sale price of the blue jeans?

(Did you remember to subtract the PART from the WHOLE?)

YOUR TURN

Keep your eye on the whole and calculate the final sale price on these multiple markdowns:

1. The Big Store is running a sale on gas grills. The original price of a Cheery Chef grill was \$320, but the current sale price is 30% off. There's also a Father's Day special, where the customer gets another 10% off the sale price with a store coupon. If a customer gets all the deductions, how much will the grill cost?

Do the	math	here:
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Step 1:	
Step 2:	
Repeat Step 1:	
Repeat Step 2: _	

Final Price:



2. Irene has had her eye on a \$250 beaded dress for a long time. This week it's on sale, 15% off. Because Irene works at the store on Saturdays, she can get another 20% off the sale price. What will she pay ?

unit 1, part 2

Do the math here:

Step 1:

Step 2:

Repeat Step 1: _____

Repeat Step 2:



2) Step 1: \$250 × 0.15 = \$37,50; Step 2: \$250 - \$37,50 = \$212.50; Repeat Step 1: \$212.50 × 0.20 = \$42.50; Repeat Step 2: \$212.50 - \$42.50 = \$170

\$201.60

VOUR TURN: 1) Step 1: \$320 × 0.30 = \$96; **Step 2:** \$320 – \$96 = \$224; **With Provided 1:** \$224 × 0.10 = \$22.40; **Repeat Step 2:** \$224 – \$22.40 = \$524 = \$524 = \$524 = \$524 = \$524 = \$524 = \$525 = \$52 24 = 21 = 03 :C qois 21 = 32.0×03 :F qois :HTAM OR WON

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