More Than One Change

Write every step on its own line, with what the percent is taken of. Round money to the cent at the end.

Name _____ Date _____

Words we use

say the math word, then the plain English

WORD	PLAIN ENGLISH	WHAT YOU DO
Subtotal	The total before tax or tip.	Find it first; the percents are taken from it.
One step at a time	Finish one change before starting the next.	Write each line, then apply the next percent to that line.
Percent of what	The whole the percent is taken from.	Ask it at every step; it changes after each one.
Discount, tax, tip, commission	From Lessons 3 and 4.	Each one is a multiplier, applied in order.

Part A Abraham's dinner

LINE	AMOUNT
Food: $12.99 + $14.79 + 2 drinks at $2.75	
Tax, 7.5%	
Bill with tax	
Tip, 15% of the food	
Total	
Tip, 15% of the bill after tax	
Total that way	

Part B Stacking

1. A used car: $10,000, plus a $259 fee, then a 25 percent markup, then 10 percent commission. Final price?

2. A $50 game: 20 percent markup, then 10 percent off.

3. A $200 bike: 15 percent markup, 20 percent off, 7 percent tax.

Part C The surprise

1. A $100 jacket, up 10 percent then down 10 percent. Guess, then work it out.

2. A $50 game, 20 percent off then 10 percent off. Price, and the single percent off.

3. Two 25 percent discounts on $80. Is it half off?

Part D Exit ticket

1. A $50 jacket, 20 percent off, then 6 percent tax. What do you pay?

2. $100 up 10 percent, then down 10 percent. Where does it land?

3. Why are two 10 percent discounts not 20 percent off?

Answer key

Part A. $33.28; $2.50; $35.78; $4.99; $40.77; $5.37; $41.15.

Part B. 1. $14,106.13. 2. $54. 3. $196.88.

Part C. 1. $99. 2. $36, which is 28% off. 3. No: $45, which is 43.75% off.

Part D. 1. $42.40. 2. $99. 3. The second 10 percent is taken from a smaller number.