Finding The Real Deal

About 9 out of 10 people answer question II incorrectly. Try this activity and see if you can answer it correctly.
Fill in the blanks using the numbers below only once. The number 9 has already been used for you.

0	1	2	3	4	5	6	7	8	~~9~~

I. Is 60% off the original price **plus** an additional 10% off the **same as** 70% off?
Yes or **No** (circle one)

Complete the equations below to find out. **Remember**: Once you use a number once, cross it off the tile above.

The original price of a video game is $50.

Calculation A:
60% Off Plus an Additional 10% Off

60% of $50 = 0.6 x 50 = $ 30 (1st savings)

$50 - $30 = $ 20

Additional savings:

10% of 20 = 0.2 x 20 = $2 (2nd savings)

$20 -$2 = $ 18 (sale price)

Is it the same? **Yes** or **No**

Calculation B:
70% Off

70% of $50 = 0.35 x 50 = $35 (total savings)

$50 -$35 = $ 15 (sale price)

II. Does it make a difference if a store takes 60% off the original price **First** then an additional 10% **OR** 10% off the original price **First** then an additional 60 % off? **Yes** or **No** (circle one)

In Calculation A you found the sale price when the original price was $50 and there was a 60% discount with an additional 10% discount. Now calculate the sale price if the order of the discounts were reversed.

Calculation C:
10% of $50 = 0.1 x 5 = $5 (1st savings)

$50-$5 = $ 45

60% of $45 = 0.6 x 45 = $27 (2nd savings)

$45-$27 = $18 (sale price)

Compare the sale price you calculated from Calculation A with Calculation C. Does it make a difference in the sale price which way the discounts are calculated? **Yes** or **No** (circle one)

5-7 Benchmark Compare, order and convert among fractions decimals and percents.

LEARNING 24/7
community as classroom
a program of summit education initiative