

Finding The Real Deal

Answers



- 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

$$60\% \text{ of } \$50 = 0.6 \times 50 = \$ \boxed{3} \boxed{0} \text{ (1st savings)}$$

$$\$50 - \$30 = \$ \boxed{2} \boxed{0}$$

Additional savings:

$$10\% \text{ of } 20 = \boxed{0} \boxed{1} \times 20 = \$2 \text{ (2nd savings)}$$

$$\$20 - \$2 = \$ \boxed{1} \boxed{8} \text{ (sale price)}$$

Is it the same? **Yes** or **No** (circle one)

- 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:

$$10\% \text{ of } \$50 = 0.1 \times \boxed{5} \boxed{0} = \$5 \text{ (1st savings)}$$

$$\$50 - \$5 = \$ \boxed{4} \boxed{5}$$

$$60\% \text{ of } \$45 = \boxed{0} \boxed{6} \times 45 = \$27 \text{ (2nd savings)}$$

$$\$45 - \$27 = \$18 \text{ (sale price)}$$

- 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)

Calculation B:

70% Off

$$70\% \text{ of } \$50 = \boxed{0} \boxed{7} \times 50 = \$35 \text{ (total savings)}$$

$$\$50 - \$35 = \$ \boxed{1} \boxed{5} \text{ (sale price)}$$



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