The Math Dawg

Grade 7

Operations with Percentages_Part 2

NO CALC

SUZIE EARNS $625 PER WEEK. SHE RECEIVES A 30% RAISE. WHICH WAYS SHOWN BELOW WOULD PROPERLY CALCULATE SUZIE'S NEW WEEKLY EARNINGS?

A. MULTIPLY $625 BY .3

B. MULTIPLY $625 BY 1.3

C. DIVIDE $625 BY .3

D. DIVIDE $625 BY 1.3

E. SOLVE $\frac{1}{625} = \frac{1.3}{X}$ FOR X

F. SOLVE $\frac{625}{1} = \frac{1.3}{X}$

KRISTEN GOES TO A STORE THAT OFFERS A 20% DISCOUNT FOR PURCHASES AT OR UNDER $200 AND A 28% DISCOUNT FOR PURCHASES OVER $200. CURRENTLY KRISTEN HAS PICKED OUT A SPEAKER SYSTEM THAT SELLS FOR $186.70. SHE DECIDES TO PURCHASE THE FEWEST PACKS OF BATTERIES THAT PUTS HER TOTAL OVER $200. EACH BATTERY PACK SELLS FOR $2.58.

HOW MUCH DOES KRISTEN SAVE IF SHE GOES WITH THE BATTERY PACK PURCHASE OPTION?

ANDY PURCHASED A NEW SNOWMOBILE. THE STATE SALES TAX WAS 11.25%. IF THE AMOUNT OF THE TAX WAS $1305, WHAT WAS THE PRICE OF THE SNOWMOBILE BEFORE TAX?

DRAKE IS LOADING UP A SEMITRAILER WITH WOOD PELLETS. HE IS USING A FORKLIFT WITH A FRONT-END LOADER THAT MEASURES 8FT BY 4FT × 2FT. IF THE SEMITRAILER MEASURES 50FT × 9FT × 12FT WHAT IS THE MINIMUM NUMBER OF LOADS DRAKE HAS TO TAKE UNTIL THE TRAILER IS 80% FULL?