Warm Up: Percent Problems 1/29

Howie went shopping for a new calculator.
The first store's price was $35.95.
There is a 10% off sale, and 8% tax.
The second store had the same calculator for $39.95 at 20% off, with no sales tax.
Which store has the better offer?

⊖ Step 1: Find 10% of 35.95 & subtract

⊕ Step 2: Find 8% of sale price in step ① and add to sale price

⊖ Step 3: Find 20% of 39.95 & subtract

Step 4: Compare answers in steps 2 & 3 to see which is the better deal.

Notes: 8-5 cont. 1/29

Markup: add to price

1. Tax
2. Tip
3. Business-profit
   - ↳ buy from factory/warehouse item @ price
   - → charge consumer more

ex: A store purchases a computer for $1200. They markup the price by 20%. What is the selling price?

$$\frac{20}{100} = \frac{x}{1200}$$

$$100x = 20(1200)$$

$$\frac{100x}{100} = \frac{24000}{100}$$

$$x = 240$$

$$1200 + 240 = 1440$$

ex: Find the markup rate on a $60 jacket that sells for $75

Finding %

1. + or −
2. Proportion

① $75 - 60 = 15$ ← $15 change

② $\frac{x}{100} = \frac{15}{60}$ → $x = 25$

25%

Notes: Markup 1/29

TRY THIS:

1) If a store purchases a pair of sneakers for $20 and marks them up 75%, how much will the consumer pay?

2) Find the markup rate if the store purchases a tv for $325 and sells it to the consumer for $400.

HW: Finish "Try This" problems