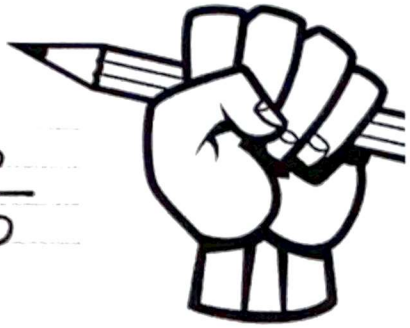
Name: ANSWERS! Period:

$\frac{\text{PART}}{\text{WHOLE}} = \frac{\%}{100}$



$\frac{\text{Amount of Change}}{\text{original amount}} = \frac{\%\text{ change}}{100}$

Unit 6 Retake

Calculators OK

Question 01.

Part (A). A shirt originally cost \$12.50 but is now offered for sale at 20% off. What is the sale price of the shirt?

$\frac{\text{Amount of change}}{\text{original amount}} = \frac{\%\text{ change}}{100}$ $\quad \frac{\square}{12.50} = \frac{20}{100}$

$12.50 \times 20 \div 100 = 2.50$ saved

STEP 2

original	12.50
− saved	−2.50
SALE price	\$10.00

Part (B). A pair of shoes originally cost \$120 but is now offered for sale at 10% off. What is the sale price of the pair of shoes?

$\frac{\text{Amount of change}}{\text{original amount}} = \frac{\%\text{ change}}{100}$ $\quad \frac{\square}{120} = \frac{10}{100}$

$120 \times 10 \div 100 = 12$ saved

STEP 2

Original	120
−SAved	−12
Sale price	\$108

Part (C). What is the total amount <u>saved</u> in Part (A) and (B) above?

Shirt → 2.50 saved

Shoes → 12.00 saved

TOTAL \$14.50 saved

Question 02

You purchase a skateboard that is being sold for 25% off the original price.

The original price is $20 more than the sale price. What is the original price of the skateboard?

$$\frac{\text{Amount of change}}{\text{original amount}} = \frac{\%\text{ change}}{100}$$

$$\frac{20}{\quad} = \frac{25}{100}$$

$20 \times 100 \div 25 = 80$

$80

Question 03

Part (A). A backpack costs $35 plus a tax of 8%. What is the total cost of the backpack?

$$\frac{\text{Amount of change}}{\text{original amount}} = \frac{\%\text{ change}}{100}$$

$$\frac{\quad}{35} = \frac{8}{100}$$

$35 \times 8 \div 100 = 2.8$ tax

STEP 2

backpack 35.00

+ tax + 2.80

Total $37.80

Part (B). A suitcase costs $115 plus a tax of 12%. What is the total cost of the suitcase?

$$\frac{\text{Amount of change}}{\text{original amount}} = \frac{\%\text{ change}}{100}$$

$$\frac{\quad}{115} = \frac{12}{100}$$

$115 \times 12 \div 100 = 13.8$ tax

Step 2

Suitcase 115.00

+ tax + 13.80

TOTAL $128.80

Part (C). What is the difference between the total costs in Part (A) and (B) above?

Suitcase 128.80

backpack 37.80

Difference $91.00

Question 04

A television was originally being sold for $250. Now it is being offered at $200.

What is the percent discount?

STEP 1

Old amount 250

New amount -200

Amount of change 50

$$\frac{\text{Amount of change}}{\text{original amount}} = \frac{\%\text{ change}}{100} \qquad \frac{50}{250} = \frac{\quad}{100}$$

$50 \times 100 \div 250 = 20$

20%

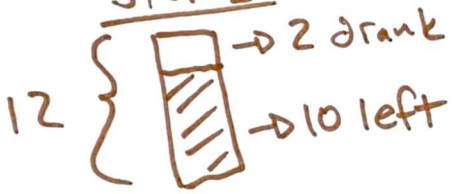
Question 05

You drink 2 ounces of your 12-ounce sports drink.

What percent of the drink do you have left?

Round your answer to the nearest hundredths.

STEP 1



$$\frac{\text{Part}}{\text{whole}} = \frac{\%}{100} \qquad \frac{10}{12} = \frac{\quad}{100}$$

$10 \times 100 \div 12 = 83.333$

83.33%