

A TV has an original price of \$499. Find the new price after the 10% increase.

RECAP OF YESTERDAY...

1. 20% of 100 \rightarrow 0.20 x 100 = 20

2. Percent Increase or Decrease:

- a. Amount of Change = Greater Value Lesser Value
- b. Percent Change = Amount of Change ÷ Original Amount

PERCENT EXPRESSIONS

How can you rewrite expressions to help you solve markup and markdown problems?

CALCULATING MARK-UPS

Markup : A markup is one kind of percent increase.

To make a profit, stores mark up the prices on the items they sell. A sports store buys skateboards from a supplier for s dollars. What is the retail price for skateboards that the manager buys for \$35 and \$56 after a 42% markup?

Retail price = Original cost + Markup

- = s + 0.42s
- = 1s + 0.42s
- = 1.42s

CALCULATING MARK-UPS

Expression \rightarrow 1.42s

Use the expression to find the retail price of each skateboard.

CALCULATING MARK-UPS

Use the original price and the markup to find the retail price.

1. Original price: \$60; Markup: 15%; Retail price?

2. Original price: \$32; Markup: 12.5%; Retail price?

CALCULATING MARK-DOWNS

Mark-down : one kind of percent decrease.

A discount store marks down all of its holiday merchandise by 20% off the regular selling price. Find the discounted price of decorations that regularly sell for \$16 and \$23.

Sale price = Original price - Markdown

- = p 0.2p
- = 1p 0.2p
- = 0.8p

CALCULATING MARK-DOWNS

Expression \rightarrow 0.8p

Use the expression to find the sale price of each decoration

p = \$16 → Sale price = 0.8(\$16) = \$12.80
p = \$23 → Sale price = 0.8(\$23) = \$18.40

CALCULATING MARK-DOWNS

Use the original price and the markup to find the retail price.

1. Original price: \$50; Markdown: 22%; Retail price?

2. Original price: \$125; Markdown: 30%; Retail price?

Item	Price	Markup %	Expression	Retail Price
Hat	\$18	15%		
Book	\$22.50	42%		
Shirt	\$33.75	75%		
Shoes	\$74.99	33%		
Clock	\$48.60	100%		
Painting	\$185.00	125%		