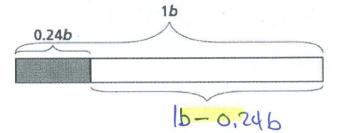
## 2 EXPLORE Calculating Markdowns

Keeley is selling bicycles. For the holiday sale, she will mark down each bike's selling price by 24%.

- A The markdown is  $2^{\frac{1}{2}}$ % of the price, b.
- B Find the amount of the markdown. Use a bar model.



The white bar represents the cost of the bike,

The grey section is 24 % of 5.

This can be written as a decimal, 0.24

C Subtract of the price of the bike to find the sales price.

Price of bike

Markdown

P You can combine like terms in the expression and write the sales price as a single term. Sales price =

## REFLECT

2a. Conjecture Compare the markup expression from 1 and the markdown expression from 2. What do you notice about the decimal value in front of the variable for markups and the decimal value in front of the variable for markdowns?

## TRY THIS!

1. Rick buys remote control cars to resell. He applies a markup of 10%. Write two expressions that represent the price of the cars.

c=c c+0.10c 1.1c=1.10c

2. Jane sells pillows. For a sale she marks them down 5%.

a. Write two expressions that represent the sale price of the pillows. p = 0.05 p = 0.95 p

**b.** If a pillow originally costs \$15, what is the sale price?

$$0.95(15) = $14.25$$

$$\frac{1.50}{2} = 0.75$$