

Name	kuy
Date:	

## 1.4 Sales Prices

## Investigate:

Your dream pair of shoes at Free Ride costs \$139.98. It is your lucky day and you get 50% off. What is the new price of the shoes before tax? Show your work.

## **Connect:**

Discount, sale, and promotion are all terms that mean you will pay \_\_\_\_\_\_\_\_ than the price on the tag. Calculating discount is similar to calculating mark up. First convert the \_\_\_\_\_\_\_ to a decimal. Then \_\_\_\_\_\_\_ the cost of the item by the decimal. Next \_\_\_\_\_ the answer from the original cost. Finally, check to make sure your answer makes sense.

## **Examples:**

1. a. Ms. Briker decided she wanted to buy a new iPod to replace the one she accidently washed. At Best Buy the iPod costs \$179.99 and is 15% off. What is the new price of the iPod before tax?

15% of 179.99

0.15 × 179.99 = 26.9985 
$$\rightarrow$$
 27.00

179.99

- 27.00

152.99

b. What is the new price of the iPod including tax?

- 2. A fisher sells fresh salmon and prawns during the week. As the weekend approaches, he needs to sell off his stock, otherwise it will spoil. He offers 20% off all his prices. Salmon is regularly \$18.50/kg and prawns are \$34.50/kg.
  - a. What is the price of salmon that weighs 3 kg?

$$18.50 \times 3 = 55.50$$

OR  $20\%$  of  $55.50$ 
 $6.20 \times 55.50 = 11.10$ 
 $55.50 - 11.10 = 44.48$ 

b. How much would 500 g of prawns cost?

Conversion: 1000 
$$g = 1 \times g$$
 =  $7500g \times 1 \times g$  = 0.5 \text{ kg} = 0.5 \te

3. What is the percentage markdown if a \$175.00 portable Bose speaker sells for \$150.00?

$$175.00$$
 $125 \text{ out of } 175.00$ 
 $-150.00$ 
 $175.00$ 
 $175.00$ 
 $175 = 0.1428571 \times 100 = 14.28 \%$ 

4. Josie specializes in selling products from the Philippines, including rattan, bamboo, and palm baskets. Medium sized bamboo baskets are regularly priced at \$19.98. They are on sale, advertised as "Buy one, get the second at half price." What is the discount rate as a percent?

cost of 2 baskets:  

$$$19.98 \times 2 = $39.96$$
  
half price of ane:  
 $19.98 \times 0.5 = $9.99$   
 $\frac{1}{2}$   
 $\frac{discount}{regular} = \frac{9.99}{39.96} = 0.25 \times 100 = 25\%$