



## Markup & Markdown Problems Worksheet

1. A ski shop has a markup rate of 50%. Find the selling price of skis that cost the storeowner \$300.

*Solution 1: Use the original price of \$300 as the whole. The markup rate is 50% of \$300 or \$150.*

*The selling price is  $\$300 + \$150 = \$450$ .*

*Solution 2: Multiply \$300 by 1 plus the markup rate (i.e., the selling price is  $(1.5)(\$300) = \$450$ ).*

2. A tennis supply store pays a wholesaler \$90 for a tennis racquet and sells it for \$144. What is the markup rate?

*Let the original price of \$90 be the whole. Quantity = Percent  $\times$  Whole.*

$$144 = \text{Percent}(90)$$

$$\frac{144}{90} = \text{Percent}$$

*1.6 = 160%. This is a 60% increase. The markup rate is 60%.*

3. A shoe store is selling a pair of shoes for \$60 that has been discounted by 25%. What was the original selling price?

$$\$60 \rightarrow 75\%$$

$$\$20 \rightarrow 25\%$$

$$\$80 \rightarrow 100\%$$

*The original price was \$80.*