

Problem Set

1. A salesperson will earn a commission equal to $\frac{1}{32}$ of the total sales. What is the commission earned on sales totaling \$24,000?
2. DeMarkus says that a store overcharged him on the price of the video game he bought. He thought that the price was marked $\frac{1}{4}$ of the original price, but it was really $\frac{1}{4}$ off the original price. He misread the advertisement. If the original price of the game was \$48, what is the difference between the price that DeMarkus thought he should pay and the price that the store charged him?
3. What is the cost of a \$1,200 washing machine after a discount of $\frac{1}{5}$ the original price?
4. If a store advertised a sale that gave customers a $\frac{1}{4}$ discount, what is the fractional part of the original price that the customer will pay?
5. Mark bought an electronic tablet on sale for $\frac{1}{4}$ off the original price of \$825.00. He also wanted to use a coupon for $\frac{1}{5}$ off the sales price. How much did Mark pay for the tablet?
6. A car dealer paid a certain price for a car and marked it up by $\frac{7}{5}$ of the price he paid. Later, he sold it for \$24,000. What is the original price?
7. Joanna ran a mile in physical education class. After resting for one hour, her heart rate was 60 beats per minute. If her heart rate decreased by $\frac{2}{5}$, what was her heart rate immediately after she ran the mile?