

**Topic:** Calculating commission

**Question:** If a car salesman makes a  $2\%$  commission on every sale, how much does he make when he sells a \$10,000 car?

**Answer choices:**

- A      \$200
- B      \$2,000
- C      \$100
- D      \$1,000



**Solution: A**

To find the salesman's commission, we multiply the selling price by the percent commission.

$$2\% \text{ of } \$10,000$$

$$0.02 \cdot \$10,000$$

$$\$200$$



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**Question:** A used car salesman makes an 8 % commission on every car he sells. He's also paid an annual salary of \$35,500. How much money in car sales does he need to make if he wants to increase his annual income to \$44,000?

**Answer choices:**

- A      \$8,500
- B      \$79,500
- C      \$95,500
- D      \$106,250



**Solution: D**

First, let's find how much money the salesman wants to earn as a commission annually.

$$\$44,000 - \$35,500 = \$8,500$$

If he wants to make this additional \$8,500, and he makes 8 % commission, then we can set up the equation

$$\$8,500 = 8 \% \text{ of } x$$

$$\$8,500 = 0.08x$$

$$\frac{\$8,500}{0.08} = x$$

$$x = \$106,250$$

So in order to earn a salary of \$44,000, the salesman needs to sell \$106,250 of cars.



**Topic:** Calculating commission

**Question:** A sales clerk makes a 10 % commission on the items she sells. If each item costs \$25, how many items does she need to sell to earn \$350 in commission?

**Answer choices:**

- A      14
- B      25
- C      73
- D      140



**Solution: D**

First, let's find how much money the sales clerk needs to make in sales to earn \$350 in commission.

$$\$350 = 10\% \text{ of } x$$

$$\$350 = 0.10x$$

$$\frac{\$350}{0.10} = x$$

$$x = \$3,500$$

Since each item costs \$25, we can find the number of items the sales clerk needs to sell to earn \$350 in commission.

$$\frac{\$3,500}{\$25} = 140$$

The clerk needs to sell 140 items if she wants to earn \$350 in commission.

