Question

A ticket agency charges 9.5% fee on all tickets sold. If a ticket costs $40, what is a fee?

Solution

If $40 includes a 9.5% fee, then we have the following equation:

$$x + 0.095x = 40;$$

$$1.095x = 40;$$

$$x \approx 36.53.$$

Then 9.5% free is

$$0.095x = 0.095 \cdot 36.53 = 3.47$$

Answer: $3.47.