

Answer on Question #54086 – Math – Algebra

Question

Martina wants to earn more than \$80 selling ice cream cones. She has already earned \$24. Let x represent the number of ice cream cones to be sold at \$2 each. Which statement represents how many more ice cream cones Martina needs to sell to earn more than \$80?

Solution

The statement is represented by the following inequality:

$$2 \cdot x > S - \beta,$$

where S is desired amount and β is already earned;

Plug in $S = 80$, $\beta = 24$ into this inequality:

$$2x > 80 - 24$$

Simplify

$$2x > 56$$

Divide both sides by 2

$$x > 28.$$

Answer: $x > 28$.