

NC EMPT'S
QUESTION?
of The week

Solve the equation $7^{5x} \cdot 7^{-3} = 1$ for x .

A. $\frac{1}{49}$

B. $\frac{3}{5}$

C. $\frac{4}{5}$

D. 1

E. 49

Last Week's Answer

When buying an item at a sporting goods store, the company advertises that products will be 10% higher than those purchased on their website. If you buy an item in their store for \$385, what would it cost had you bought it on their website?

A. \$38.50

B. \$346.50

C. **\$350.00**

D. \$388.89

E. \$423.50

Solution:

Let x = web price for item

Store price = 10% higher than web price

$$385 = x + (10\% \text{ of } x)$$

$$385 = x + 0.1x$$

$$385 = 1.1x$$

$$x = \$350$$

Each week, we'll reveal the answer to the previous week's question!

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