Name

Quadratic Equation Word Problem To Optimization (x) - Revenue with Price Change

1

A movie theater sells 70 tickets for $3 each. For every $0.08 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.01$	$p = \$0.04$

2

A movie theater sells 70 tickets for $7 each. For every $0.08 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.06$	$p = \$0.07$
C	
$p = \$0.04$	

3

A lemonade stand sells 40 drinks for $4 each. For every $0.05 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.01$	$p = \$0.02$

4

A movie theater sells 40 tickets for $8 each. For every $0.08 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.03$	$p = \$0.02$
C	
$p = \$0.01$	

5

A lemonade stand sells 20 drinks for $10 each. For every $0.11 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.06$	$p = \$0.00$
C	
$p = \$0.01$	

6

A movie theater sells 60 tickets for $10 each. For every $0.10 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.05$	$p = \$0.10$
C	
$p = \$0.03$	

7

A movie theater sells 100 tickets for $4 each. For every $0.06 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.08$	$p = \$0.05$
C	
$p = \$0.03$	

8

A lemonade stand sells 90 drinks for $11 each. For every $0.11 increase in price 1 fewer will be sold.

What price would maximize the revenue?

A	B
$p = \$0.05$	$p = \$0.09$
C	
$p = \$0.11$	