



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

1 What price would maximize the revenue?

A lemonade stand sells 100 drinks for \$3 each. For every \$0.11 increase in price 1 fewer will be sold.

A	B
$p = \$0.06$	$p = \$0.08$
C	
$p = \$0.07$	

2 What price would maximize the revenue?

A movie theater sells 90 tickets for \$11 each. For every \$0.11 increase in price 1 fewer will be sold.

A	B
$p = \$0.09$	$p = \$0.04$
C	
$p = \$0.08$	

3 What price would maximize the revenue?

A movie theater sells 60 tickets for \$8 each. For every \$0.06 increase in price 1 fewer will be sold.

A	B
$p = \$0.06$	$p = \$0.01$
C	
$p = \$0.03$	

4 What price would maximize the revenue?

A lemonade stand sells 40 drinks for \$3 each. For every \$0.02 increase in price 1 fewer will be sold.

A	B
$p = \$0.09$	$p = \$0.01$
C	
$p = \$0.04$	

5 What price would maximize the revenue?

A lemonade stand sells 50 drinks for \$3 each. For every \$0.06 increase in price 1 fewer will be sold.

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

6 What price would maximize the revenue?

A movie theater sells 30 tickets for \$11 each. For every \$0.09 increase in price 1 fewer will be sold.

A	B
$p = \$0.02$	$p = \$0.00$

7 What price would maximize the revenue?

A lemonade stand sells 90 drinks for \$7 each. For every \$0.07 increase in price 1 fewer will be sold.

A	B
$p = \$0.14$	$p = \$0.06$
C	
$p = \$0.09$	

8 What price would maximize the revenue?

A lemonade stand sells 90 drinks for \$6 each. For every \$0.02 increase in price 1 fewer will be sold.

A	B
$p = \$0.21$	$p = \$0.23$
C	
$p = \$0.18$	