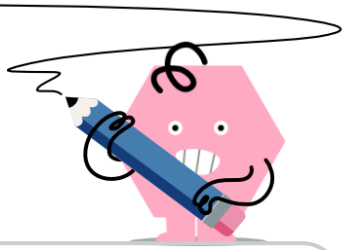
Name

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



1

A movie theater sells 80 tickets for $2 each. For every $0.07 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$2.36$	$R = \$2.31$
C	
$R = \$2.38$	

2

A lemonade stand sells 100 drinks for $4 each. For every $0.05 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$8.12$	$R = \$8.10$
C	
$R = \$8.05$	

3

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

What is the maximum possible revenue?

A	B
$R = \$1.24$	$R = \$1.25$
C	
$R = \$1.22$	

4

A lemonade stand sells 110 drinks for $5 each. For every $0.08 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$8.19$	$R = \$8.18$
C	
$R = \$8.16$	

5

A movie theater sells 30 tickets for $7 each. For every $0.10 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$0.74$	$R = \$0.75$
C	
$R = \$0.77$	

6

A lemonade stand sells 50 drinks for $9 each. For every $0.04 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$9.45$	$R = \$9.50$

7

A lemonade stand sells 70 drinks for $5 each. For every $0.08 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$3.07$	$R = \$3.10$

8

A lemonade stand sells 30 drinks for $10 each. For every $0.10 increase in price 1 fewer will be sold.

What is the maximum possible revenue?

A	B
$R = \$1.24$	$R = \$1.27$
C	
$R = \$1.30$	