





 The graph shows the number of cars in a high school parking lot on a Saturday, beginning at 10 A.M. and ending at 11 P.M. Give a possible interpretation for this graph.



2. An online computer game company has 10,000 subscribers paying \$8 per month. Their research shows that for every 25-cent reduction in their fee, they will attract another 500 users. Use a table and an equation to find the fee that the company should charge to maximize their revenue.

LESSON QUIZ TRANSPARENCY





 The graph shows the number of cars in a high school parking lot on a Saturday, beginning at 10 A.M. and ending at 11 P.M. Give a possible interpretation for this graph.



Possible answer: Football practice goes from 11:00 A.M. until 1:00 P.M. Families begin arriving at 4:00 P.M. for a play that begins at 5:00 and ends at 7:00. After the play, most people leave.

2. An online computer game company has 10,000 subscribers paying \$8 per month. Their research shows that for every 25-cent reduction in their fee, they will attract another 500 users. Use a table and an equation to find the fee that the company should charge to maximize their revenue.

Fee (\$)	Users	Revenue (\$)
\$8.00	10,000	\$80,000
\$7.75	10,500	\$81,375
\$7.50	11,000	\$82,500
\$7.25	11,500	\$83,375

 $R(f) = -2000f^2 + 26,000f;$  \$6.50