Name _____ Date _____

7.4 Puzzle Time

Did You Hear About The ...

A	**B**	**C**	**D**	**E**	**F**
G	**H**	**I**	**J**	**K**	**L**
M	**N**	**O**	**P**	**Q**	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

0, 9 **THAT**	**–2, 0** **SO**
0, 2 **OF**	$-\frac{1}{6}$, **0** **KEPT**
–5, 9, 15 **THE**	$-\frac{1}{2}, \frac{1}{2}$ **A**
7 **DURING**	**10** **TRIP**
$-\frac{12}{5}$, **0** **A**	**–6, 0** **HORSE**
0, 4 **WAS**	**0, 7** **DIARY**
–12, 12 **JOCKEY**	**0, 5** **THAT**
–12, 0, $\frac{1}{3}$ **RACE**	**–1,** $-\frac{3}{5}$ **SLOW**
0, 11 **THE**	**–14, 14** **PENCIL**

Solve the equation.

A. $y(y + 6) = 0$

B. $s(s - 9) = 0$

C. $11w(w - 4) = 0$

D. $-2u(u + 2) = 0$

E. $(5r + 3)(r + 1) = 0$

F. $(j - 7)^2 = 0$

G. $(8 - 16d)(8 + 16d) = 0$

H. $4p(3p - 1)(p + 12) = 0$

I. $b(b - 5)^2 = 0$

J. $(18 - 2e)(2e + 10)(-e + 15) = 0$

K. $(12 - m)\left(9 + \frac{3}{4}m\right)(m - 12) = 0$

L. $6q^2 + q = 0$

M. $48a + 20a^2 = 0$

N. $7n^2 = 49n$

O. $16t^2 - 32t = 0$

P. $77c - 7c^2 = 0$

Q. The archway to the entrance of an art gallery can be modeled by $y = -\frac{1}{3}(x - 5)(x + 5)$, where x and y are measured in feet. The x-axis represents the floor. Find the width of the arch at floor level.