



## Puzzle Time

### Why Did The Other Vegetables Like The Corn?

A	B	C	D	E	F
G	H				

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

8 LEND
3 WAS
5 AN
6 WILLING

**Divide using polynomial long division. Match the expression with the equivalent expression at the bottom.**

- A.  $(x^2 + x - 10) \div (x - 2)$   
 B.  $(x^3 + x^2 + x + 4) \div (x^2 + 2)$   
 C.  $(8x^3 + 2x^2) \div (x^2 - 1)$   
 D.  $(4x^4 - 36x^2 - 30x - 12) \div (x^2 - 3x)$

4 EAR
2 HE
1 ALWAYS
7 TO

**Divide using synthetic division. Match the expression with the equivalent expression at the bottom.**

- E.  $(x^2 + 3x - 1) \div (x + 1)$     F.  $(5x^2 - 2x + 8) \div (x - 4)$   
 G.  $(x^3 - 2x^2 + x - 6) \div (x + 3)$   
 H.  $(x^2 + 16) \div (x - 4)$

**Answers**

1.  $8x + 2 + \frac{8x + 2}{x^2 - 1}$     2.  $x + 3 - \frac{4}{x - 2}$   
 3.  $x + 1 + \frac{-x + 2}{x^2 + 2}$     4.  $x + 4 + \frac{32}{x - 4}$   
 5.  $x^2 - 5x + 16 - \frac{54}{x + 3}$     6.  $4x^2 + 12x + \frac{-30x - 12}{x^2 - 3x}$   
 7.  $x + 2 - \frac{3}{x + 1}$     8.  $5x + 18 + \frac{80}{x - 4}$