



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. $5x + 18 + \frac{80}{x - 4}$