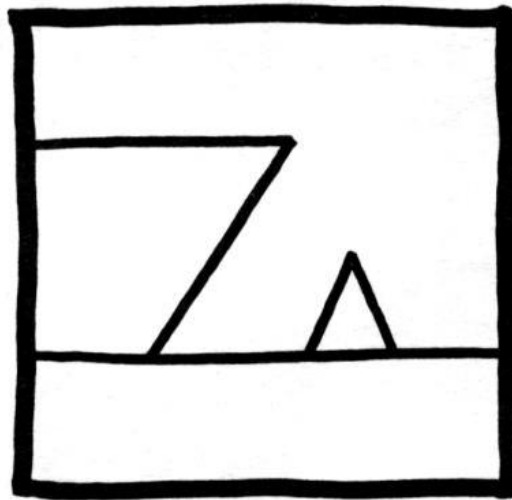


Doodle Construction-- Answer Key by David Pleacher

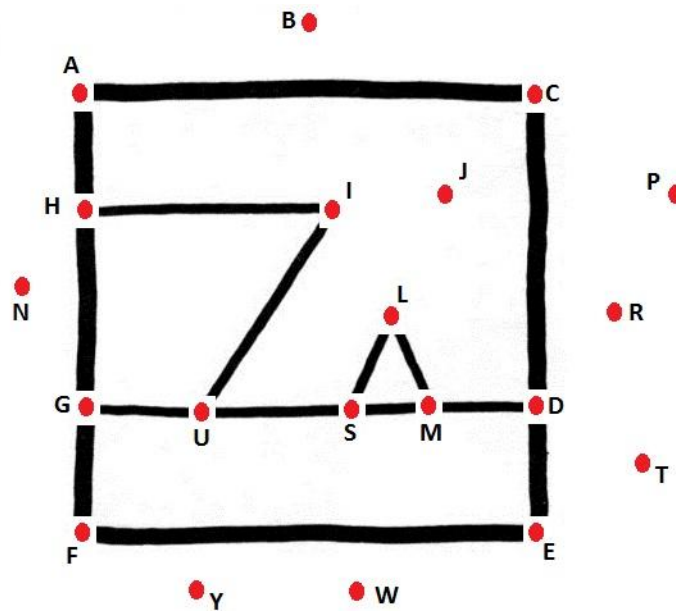


You probably thought the title to this doodle was:

“A SHIP ARRIVING TOO LATE TO SAVE A DROWNING WITCH.”

But the real title is:

“A MOTHER PYRAMID FEEDING ITS CHILD.”



## Answer Key

### Factoring Problems

- Factor  $4x - 16$
- Factor  $x^2 - 16$
- Factor  $9x^2(2x + 7) - 12x(2x + 7)$
- Factor  $x^2 + 2x - 15$
- Factor  $x^2 - 8x + 15$
- Factor  $x^2 + 6x + 9$
- Factor  $3x^2 + 2x - 8$
- Factor  $5x^2 - 17x + 6$
- Factor  $4x^2 + 10x - 6$
- Factor  $25x^2 - 9$
- Factor  $8x^3 + 1$
- Factor  $64x^6 - 8$
- Factor  $5x^2 - 100x + 500$
- Factor  $x^4 - 16$
- Factor  $x^2 + 6x + 4$
- Factor  $3x^3 - 2x^2 + 12x - 8$
- Factor  $x^5 - 3x^3 - 2x^2 + 6$
- Factor  $4x^2 + 20x + 25 - 9y^2$
- Factor  $64x^6 - 1$
- Factor  $x^4 + x^2 - 20$

### Corresponding Answers

- M.  $4(x - 4)$
- E.  $(x + 4)(x - 4)$
- L.  $3x(2x + 7)(3x - 4)$
- U.  $(x - 3)(x + 5)$
- V.  $(x - 3)(x - 5)$
- F.  $(x + 3)^2$
- A.  $(3x - 4)(x + 2)$
- C.  $(5x - 2)(x - 3)$
- T.  $2(2x - 1)(x + 3)$
- O.  $(5x - 3)(5x + 3)$
- R.  $(2x + 1)(4x^2 - 2x + 1)$
- I.  $8(2x^2 - 1)(4x^4 + 2x^2 + 1)$
- N.  $5(x - 10)^2$
- G.  $(x^2 + 4)(x - 2)(x + 2)$
- Y. Prime
- W.  $(3x - 2)(x^2 + 4)$
- S.  $(x^2 - 3)(x^3 - 2)$
- D.  $(2x + 5 - 3y)(2x + 5 + 3y)$
- H.  $(2x - 1)(2x + 1)(4x^2 + 2x + 1)(4x^2 - 2x + 1)$
- P.  $(x - 2)(x + 2)(x^2 + 5)$

The letters in the answer column spell,

“ME LUV FACTORING, YWS [yes], DHP [my initials]”