

Mathematics Awareness Month - April 2010

Mathematics and Sports

Did humidity decrease the
homeruns at Coors Field?

Mathematics can answer this question
and many others.

www.mathaware.org

$$z = \frac{\frac{x_1}{n_1} - \frac{x_2}{n_2}}{0.0168882942}$$

$$x_1 = 816 \quad x_2 = 1386$$

$$n_1 = 1294 \quad n_2 = 2558$$

$$z = \frac{\frac{816}{1294} - \frac{1386}{2558}}{0.0168882942} = 5.40$$

$$P(Z > z) = 3.43 \times 10^{-8}$$

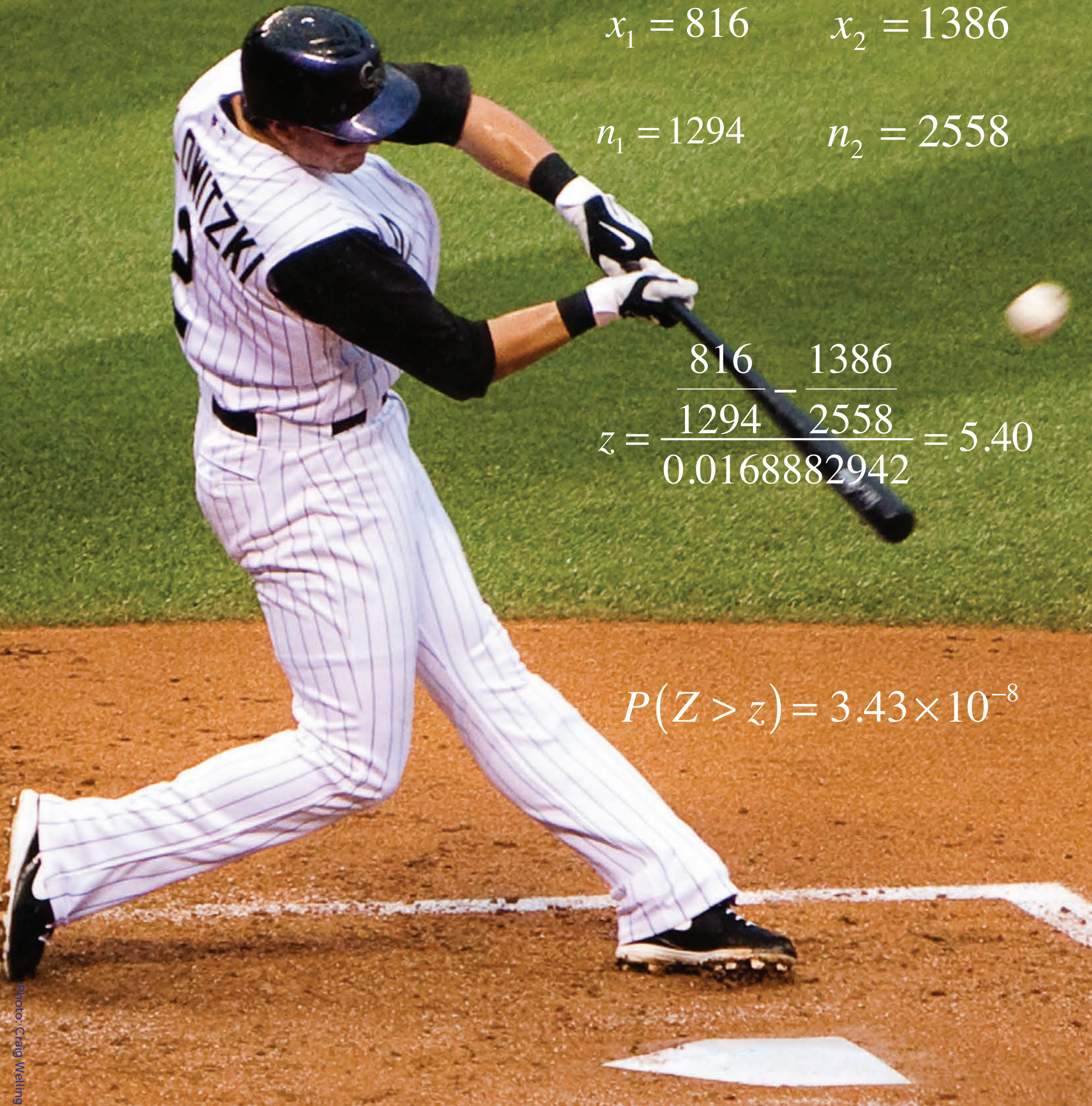


Photo: Craig Welling