Millennium Mathematics Project
bringing mathematics to life

http://mmp.maths.org/risk
http://understandinguncertainty.org

WHAT ARE THE ODDS?

The Hands-On Risk and Probability Show

What are the chances of winning the lottery?
Is your football team's place in the league tables down to luck or to skill?
If a 95% accurate lie detector test says you are guilty, what is the chance you might be innocent?

What Are the Odds?: the Hands-On Risk and Probability Show enables Key Stage 2-5 students to explore real-world examples of probability in action through interactive presentations and *Who Wants to be a Mathionaire?* game-show workshops.

Discover how mathematics can help to make sense of the real world in situations involving luck, chance, risk and probability.

How it works: The Hands-On Risk and Probability Show is suitable for Key Stages 2-5. It consists of an initial 60-minute interactive presentation to the full group of students who will take part during the day. Students then return in groups of up to 80 at a time to participate in the highly interactive *Who Wants to Be a Mathionaire?* game-show workshop sessions, using hand-held voting technology to participate in a series of challenges exploring probability and statistics. Each *Who Wants to Be a Mathionaire?* workshop session lasts around 50-60 minutes. The workshop can be repeated a maximum of 5 times (full day - twice in a half-day) until all students have taken part.

Venue required: We can set up the presentation and workshop activities in your large hall, theatre, or similar, which must have chairs for all students involved to be seated comfortably and be available all day.

Cost and booking: The cost for the Risk and Probability Show is £595 for a full day or £415 for a half-day event (plus travel costs). To make a provisional booking return the form overleaf, see www.mmp.maths.org/risk or email Nadia Baker at risk@maths.org for further information.

"I think risk, probability, and statistics are some of the most important and relevant areas of mathematics. The use of technology and hands-on activities help to inspire and excite students in understanding the link between classroom mathematics and the real world. And it's fun!"
Professor David Spiegelhalter, University of Cambridge

Teacher feedback: **'Complemented and went beyond the material covered in maths lessons.'**
'An excellent way to demonstrate that mathematics is interesting, fun, useful and definitely worth studying.'
'Students were engaged and enthusiastic'
'A brilliant, entertaining and challenging session'

UNIVERSITY OF CAMBRIDGE

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What are the Odds? - the Hands-On Risk & Probability Show: Booking Form

(please print clearly in block capitals)

Please return by post, email or fax to **Nadia Baker**

Post: **MMP, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WA**

Phone: 01223 764604 (office) / 07554 421883 (mobile)

Email: risk@maths.org Fax: 01223 765900

School / Venue: Address: Postcode: Please provide address and contact details for invoice if different from above:
Contact person: Email address: Daytime tel:
Requested date(s) for visit:
Fee (please indicate): Whole day: £595 or Half-day: £415 (Invoice is sent after the event. Travel at 40p/mile and cost of accommodation where necessary will be extra. Cancellation charges apply, see http://mmp.maths.org/projects/cancellation-policy.html)
Pupils to be involved during the day (please indicate): y5, y6, y7, y8, y9, y10, y11, y12, y13 Ability level of students:
Room available (please indicate) - room must have seating to accommodate all students taking part: Hall Gym Other (please specify):
Timetable (if possible). Please indicate whether the time is for the presentation, workshop or for both:
Number of students taking part:
Queries and/or other details:
How did you find out about the Risk and Probability Show?

Signed:_____

Date:_____

Office use only;
Confirmation_____
Reminder_____