



MATCH ODDS

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In the 2010 World Cup Group A matches the probability of each team winning are given:

- MATCH 1 South Africa (10/31) v Mexico (11/28)
- MATCH 2 Uruguay (1/4) v France (10/21)
- MATCH 3 South Africa (4/13) v Uruguay (10/23)
- MATCH 4 France (10/21) v Mexico (4/15)
- MATCH 5 France (11/21) v South Africa (1/5)
- MATCH 6 Mexico (8/21) v Uruguay (10/27)

Part 1

Give the probability of a draw for each of the matches above.

Part 2

Give the probability that:

- a) South Africa win all of their matches
- b) Mexico lose all their matches
- c) Uruguay win exactly two of their matches
- d) France win at least one of their matches
- e) Uruguay and France both draw all their matches
- f) None of the matches ends in a draw
- g) At least three of the matches end in a draw
- h) South Africa win one match, draw one match and lose one match

Part 3

Teams are given 3 points for a win in the group stage and 1 point for a draw.

Give the probability that:

- a) Mexico end the group stage with 6 points
- b) France end the group stage with at least 7 points
- c) Two teams end the group stage with 7 or more points
- d) South Africa end the group stage with an even number of points
- e) One team ends the group stage with 0 points

Part 4

The corresponding Group C match probabilities are as follows:

- MATCH 1 England (7/11) v USA (2/13)
- MATCH 2 Algeria (2/7) v Slovenia (5/11)
- MATCH 3 Slovenia (5/17) v USA (10/23)
- MATCH 4 England (3/4) v Algeria (2/25)
- MATCH 5 Slovenia (2/17) v England (11/16)
- MATCH 6 USA (5/9) v Algeria (1/5)

Give the probability that:

- a) England win all their matches
- b) Slovenia lose all their matches
- c) USA draw all their matches
- d) Algeria end the group stage with 4 points
- e) Algeria or Slovenia end the group stage with 0 points

