

Subject n°12

STATISTICS

Please do not write on the exam paper, and do not forget to give back the examination paper at the end of the test.

I. In the table below, we can read the number of spectators, in thousands, during the different Rugby World Cups :

Year	1987	1991	1995	1999	2003	2007	2011	2015
Number of spectators	605	1,008	1,100	1,750	1,838	2,263		2,478

a. In 1987 and in 2011, the competition took place in New Zealand. Knowing that the number of spectators has increased by 144 % between 1987 and 2011, calculate the number of spectators in 2011.

b. In 1999 and 2015, the competition took place in Great Britain. What is the percentage of increase of the number of spectators between 1999 and 2015 ?

c. According to the previous results, what can you say about the popularity of rugby over the last 30 years ?

II. In the table below, there is the number of tries scored during the 2015 Rugby World Cup :

Number of tries	0	1	2	3	4	5	6	7	8	9	10	11	12
Number of matches	1	1	5	6	8	2	5	9	5	1	3	1	1

a. What is the mode ? (Remember the mode is the most frequent value)

b. Compute the average number of tries per match.

c. Explain how to calculate the median number of tries.

d. Calculate the percentage of matches where 10 tries or more were scored.

e. New Zealand team scored 39 tries during the tournament. What is the average number of tries per team for the other 19 teams in competition ?

(Vocabulary : try = essai)