

BACCALAURÉAT GENERAL
ÉPREUVE SPÉCIFIQUE DES SECTIONS EUROPÉENNES
MATHÉMATIQUES - ANGLAIS

Corrigé du sujet 2
Theme : Statistics

For the first part, the expected points are :

- Uses of statistics in general but also in sports.
- Explanations/commentaries/opinion on the quotations.

Exercise

1. $3 \times 38 = 114$. 114 is the maximum number of points a team can have.
2. 34 ; 35 ; 36 ; 37 ; 37 ; 39 ; 43 ; 44 ; 46 ; 46 ; 50 ; 50 ; 50 ; 51 ; 59 ; 62 ; 67 ; 78 ; 87 ; 95.

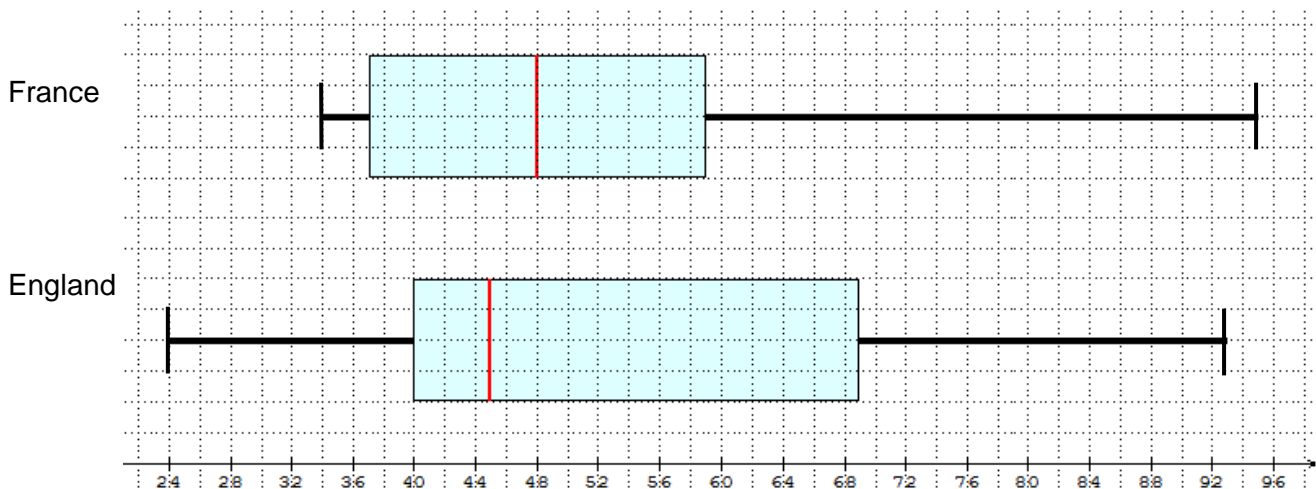
a. 20 values.

The median is the mean between the 10th and 11th values : 48.

$\frac{1}{4} \times 20 = 5$. The lower quartile is the 5th value : $Q_1 = 37$.

$\frac{3}{4} \times 20 = 15$. The upper quartile is the 15th value : $Q_3 = 59$.

b.



3.
 - The range is wider in England (the difference between the best and the worst team is bigger in England).
 - The French box (between Q_1 and Q_3) is smaller than the English one. The level is more homogeneous in France for the 50% in the middle.
 - There are more good teams in England.

Bonus : You can ask for the French and English mean.

French mean : $\frac{1046}{20} = 52.3$. English mean : impossible to calculate.