

## Problème 470 – In the country of fish and chips

Niveaux : Quatrième (DNL Anglais/Projets ou EPI Maths-Anglais)

Chapitres : Statistiques (en anglais)

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As claimed on the website of the National Federation of Fish Fisheries, “Fish and chips are the undisputed National dish of Great Britain »<sup>(1)</sup>. In a country with 67 million inhabitants (including Northern Ireland), it is said that 382 million meals from fish & chip shops are served every year, including 167 million only fish and chips meals. 80% of people visit one of the 10,500 fish and chip shops at least once a year, while 22% visit them at least once a week!

*For every question, show the details of your calculations and answer the question with a sentence written in English. Don't forget to write numbers with English rules!*

1) If we pick a British citizen who goes to a fish & chip shop, what is the probability that the meal they choose is a fish and chip meal?

2) What is the average number of meals served by a single fish and chip shop in the UK every year?

3) What is the average number of fish and chip meals ordered by a single British fish and chip shop **customer** every year?

4) Which of the following choices completes correctly the sentence? Justify your answer.

“ The median number of meals ordered by a British person in a fish and chip shop in a year... “:

- ☐ Can be any number, except 0.
- ☐ Is precisely 3.
- ☐ Is between 25 included and 35 included.
- ☐ Is strictly above 0 and strictly below 52.
- ☐ Is not in any of the choices above (or it's impossible to know).

5) “22% of British people visit a fish and chip shop at least once a week” : with some calculations, can you spot a problem with this information?

(1) Source: <https://www.nfff.co.uk/pages/fish-and-chips>