**UKCAT Quantitative Reasoning Practice Test 3**

The pie-chart below shows the 6 main sources of electricity in France (in percentage terms). The total French electricity consumption is also shown as 500 billion KWH.



1. How much electricity is generated using gas sources?

(A) 185 billion KWH

(B) 100 billion KWH

(C) 120 billion KWH

(D) 20 billion KWH

(E) 50 billion KWH

1. What fractions of total consumption do renewable and nuclear sources of electricity each represent?

(A) 1/5th

(B) 5%:20%

(C) 20%:5%

(D) 1/5:1/20

(E) 1/20:1/5

1. How much electricity (billion KWH) is generated by sources other than gas and coal?

(A) 330

(B) 115

(C) 345

(D) 145

(E) 315

1. Four sources make less than 1/3rd of the French electricity consumption. What is the subtotal (in billion KWH) of these four sources?

(A) 140

(B) 145

(C) 135

(D) 155

(E) 150

1. What fraction of the total electricity consumption do renewable energy sources provide?

(A) 1/4th

(B) 1/5th

(C) 1/20th

(D) 1/25th

(E) 1/8th

1. The UK has an electricity consumption of 400 billion KWH. Europe has an electricity consumption of 3000 billion KWH. What % of Europe’s electricity consumption does France and UK represent?

(A) 20%

(B) 25%

(C) 30%

(D) 35%

(E) 40%

**There are 5 department store chains making up most of the UK market. The table below shows the market share, numbers of stores and employees for each of these.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Department Store Chain** | **Market**  **Share** | **Employees** | **Number of**  **Stores** |
| **A** | 26% | 200,000 | 1,000 |
| **B** | 17% | 150,000 | 300 |
| **C** | 15% | 140,000 | 500 |
| **D** | 10% | 90,000 | 400 |
| **E** | 5% | 40,000 | 100 |

1. What is the average number of employees at each of Department Chain A’s stores?

(A) 2000

(B) 200

(C) 100

(D) 10

(E) 20

1. What % of market share is unaccounted for by these 5 department stores?

(A) 27%

(B) 26%

(C) 73%

(D) 74%

(E) 0%

1. Which store has the least employees per store on average?

(A) A

(B) B

(C) C

(D) D

(E) E

1. What is the median number of stores?

(A) 100

(B) 300

(C) 400

(D) 500

(E) 1000

1. What can you say about Store B?

(A) Third largest market share.

(B) More employees than Stores D and E combined together.

(C) More stores than Stores D and E combined together.

(D) Less market share than Stores D and E combined together.

(E) 450 employees per store on average.

1. What is the ratio of the number of employees in the three stores (with the most employees) compared to the total number of employees across all stores?

(A) 4:1

(B) 3:1

(C) 1:4

(D) 3:4

(E) 2:3