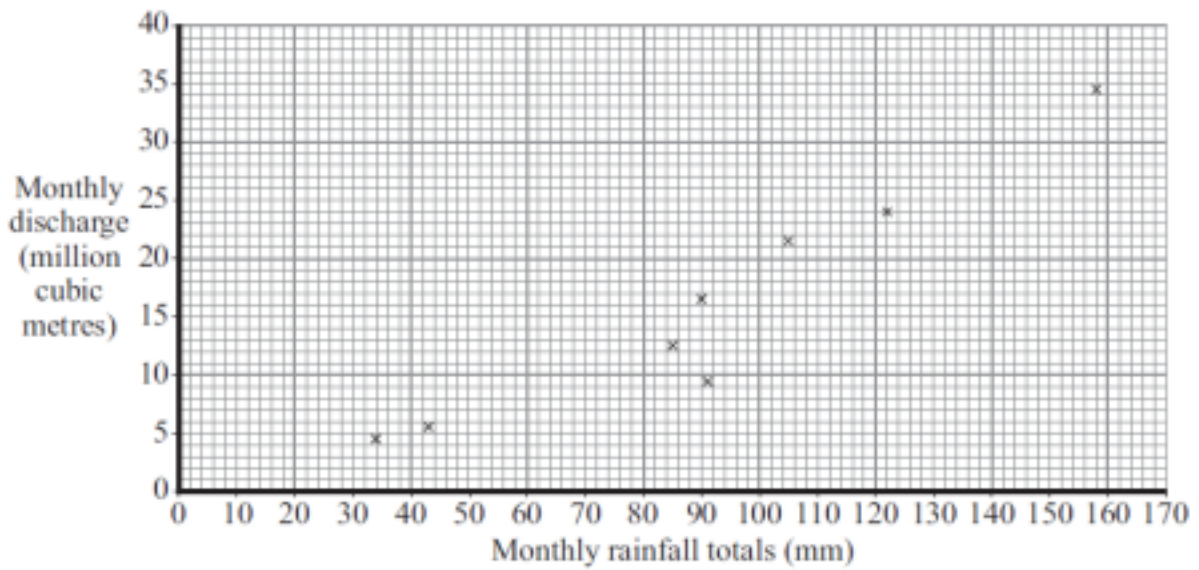


Print and complete the following questions and bring it to your first geography lesson.

Total mark /35

1) Study Figure 1, a scatter graph showing the relationship between selected monthly rainfall totals in the River Severn catchment and the corresponding month's river discharge at a selected point in the river channel.

Figure 1



1a) Complete Figure 1 by plotting the data provided in the table below and by adding a best fit line. (3 marks)

Monthly rainfall totals (mm)	Monthly discharge (million cubic metres)
90	18.8
63	11.9

1b) Describe the relationship shown in figure 1 between monthly rainfall and corresponding monthly discharge. (2 marks)

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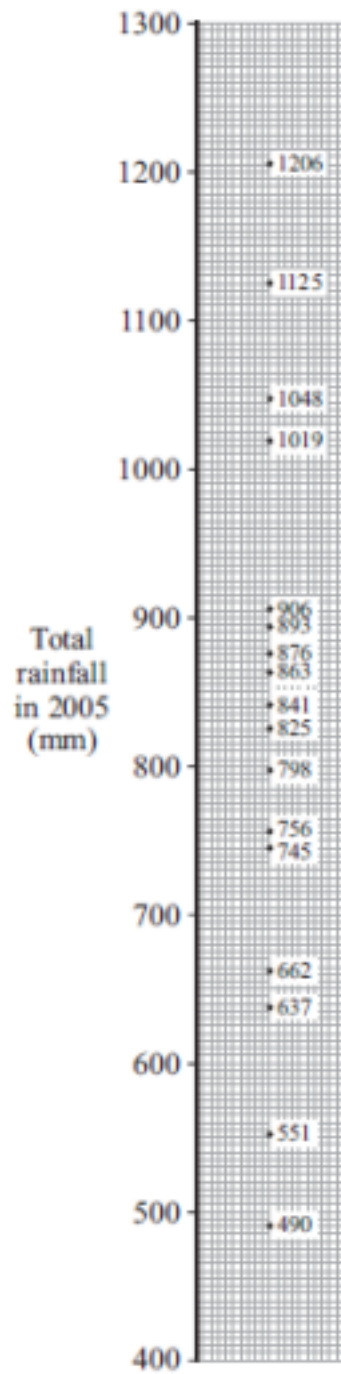
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2) Study figure 2, a dispersion diagram showing total rainfall at various weather stations across England in 2005.

Figure 2



2a) The total rainfall at two other weather stations is given below. Plot these data on Figure 2 and then give the median value. (3 marks)

589 mm

1253 mm

Median (mm)

2b) Using the formulae provided, state the upper quartile (UQ), lower quartile (LQ) and interquartile range (IQR) for the completed figure 2. **(3 marks)**

n = number in the sample

$UQ = \frac{n + 1}{4}$ th position in the rank order = (mm)

$LQ = \frac{3(n + 1)}{4}$ th position in the rank order = (mm)

IQR = (mm)

2c) Using figure 2 and your answers above, describe the dispersion of rainfall in England in 2005 **(4 marks)**

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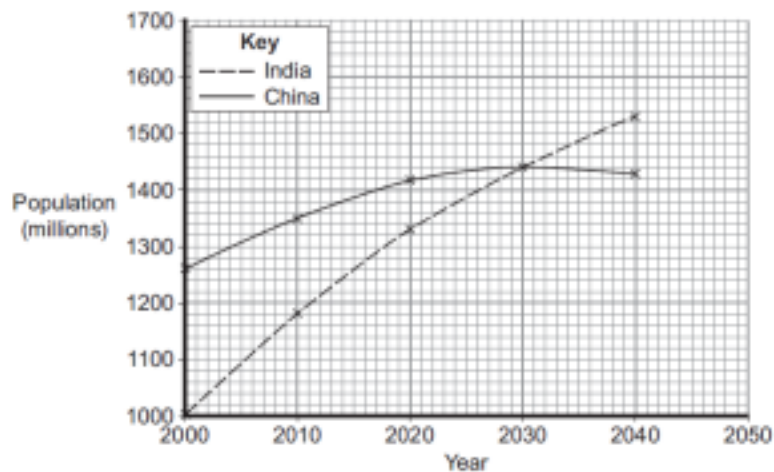
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3) Study figure 3 which shows changes in the populations of India and China between 2000 and 2050 (projected).

Figure 3



3a) Complete Figure 3 by adding the following data. **(2 marks)**

Country	Population (millions)
India	1610
China	1380

3b) Describe the changes shown in figure 3. (4 marks)

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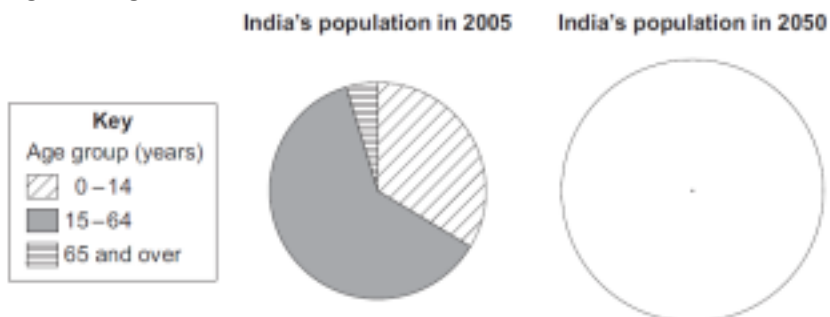
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4) Using the information provided in figure 4 and figure 5, complete the proportionate divided circle (figure 6) to show India's projected population total and structure for 2050. (3 marks)

Figure 4

Age group (years)	Population in 2005 (millions)	Projected population in 2050 (millions)
0-14	368	302
15-64	673	1016
65 and over	51	292
Total	1092	1610

Figure 5 Figure 6

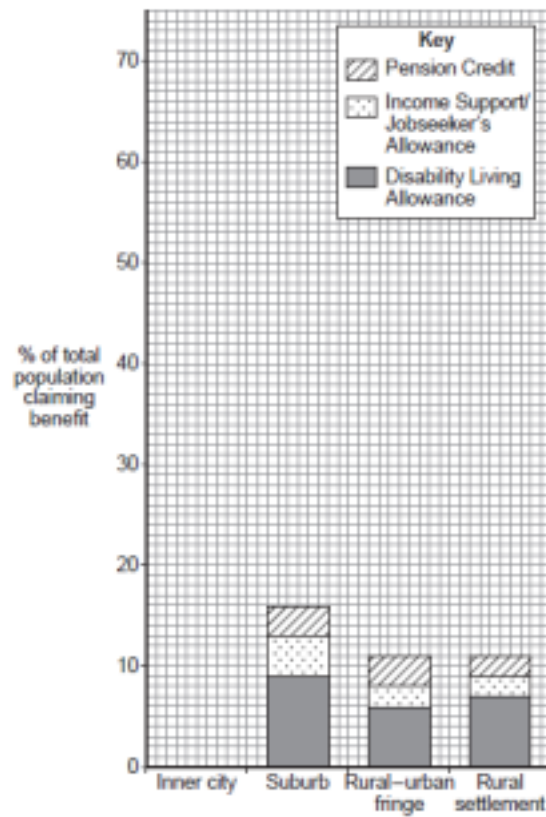


5) Study the photograph showing a settlement in India. Annotate the photograph to show the characteristics of the settlement. **(4 marks)** *(NB an annotation requires more than a label)*



6) Study figure 7 which shows three different types of benefit claimed by people in different areas of Merseyside in 2008.

Figure 7



6a) Complete figure 7 by adding the following data for the inner city area. (2 marks)

	Type of benefit		
	Disability Living Allowance	Income Support/Jobseeker's Allowance	Pension Credit
% of total population claiming benefit	12	23	36

6b) Using figure 7, calculate the mean percentage of Disability Living Allowance claimants for the four areas now shown. (1 mark)

Mean percentage =

7) Study figure 9 which shows the birth and death rates for selected countries.

Figure 9

	Brazil	Russia	India	China
Birth rate (per 1000 per year)	17.8	11.1	21.0	12.3
Death rate (per 1000 per year)	6.4	16.0	7.5	7.0

8a) Choose an appropriate technique and display the data shown in Figure 9, using the axes provided on the graph paper below. **(4 marks)**

