2.20 Choropleth Maps: 30-minute Pack

EDEXCEL 1ST0 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A population pyramid for Village C shows the number of males (left) and females (right) in each age group.

Age group	Males	Females
0 to 19	460	530
20 to 39	260	140
40 to 59	300	600
60 and over	430	460

(a) Work out the total population of Village C.

(b) How many more females than males are aged 60 and over? (Write the difference, with a negative sign if there are fewer females.)

(Total for Question 1 is 4 marks)

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2 A choropleth map shades each region by population density (people per square kilometre). Key: light = under 50, medium = 50 to under 100, dark = 100 to under 200, darkest = 200 or more.

Region	Area (square km)	Population
Hale	200	4000
Calder	250	60000
Brook	120	7200
Ashby	200	26000
Kelby	250	22500

(a) Work out the population density of Brook.
(b) State the shading of Brook on the map.
(c) How many of the five regions are shaded medium or lighter?

(Total for Question 2 is 4 marks)

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3 A population pyramid for Island E shows the number of males (left) and females (right) in each age group.

Age group	Males	Females
0 to 19	180	360
20 to 39	240	280
40 to 59	340	390
60 and over	480	110

(a) Find the total number of males and the total number of females.
(b) Write the ratio males : females in its simplest form.

(Total for Question 3 is 3 marks)

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4 A population pyramid for Island E shows the number of males (left) and females (right) in each age group.

Age group	Males	Females
0 to 19	520	330
20 to 39	320	520
40 to 59	430	280
60 and over	220	500

(a) Work out the number of people aged 60 and over.

(b) Write this as a percentage of the whole population. Give your answer to 1 decimal place.

(Total for Question 4 is 3 marks)

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5 A choropleth map shades each region by population density (people per square kilometre). Key: light = under 50, medium = 50 to under 100, dark = 100 to under 200, darkest = 200 or more.

Region	Area (square km)	Population
Lowdale	120	7200
Ashby	100	24000
Garth	80	6000
Jarrow	50	12000
Calder	120	5400

(a) Work out the population density of Calder.

(b) State the shading of Calder on the map.

(c) How many of the five regions are shaded medium or lighter?

(Total for Question 5 is 4 marks)

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6 A population pyramid for County D shows the number of males (left) and females (right) in each age group.

Age group	Males	Females
0 to 19	400	420
20 to 39	380	360
40 to 59	230	130
60 and over	590	380

(a) Work out the total population of County D.

(b) How many more females than males are aged 40 to 59? (Write the difference, with a negative sign if there are fewer females.)

(Total for Question 6 is 4 marks)

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7 A population pyramid for Island E shows the number of males (left) and females (right) in each age group.

Age group	Males	Females
0 to 19	480	430
20 to 39	140	330
40 to 59	290	130
60 and over	330	470

(a) Work out the number of people aged 60 and over.

(b) Write this as a percentage of the whole population. Give your answer to 1 decimal place.

(Total for Question 7 is 3 marks)

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8 A choropleth map shades each region by population density (people per square kilometre). Key: light = under 50, medium = 50 to under 100, dark = 100 to under 200, darkest = 200 or more.

Region	Area (square km)	Population
Jarrow	120	28800
Calder	120	15600
Eastvale	80	12800
Irwell	80	1600
Ashby	100	1000

(a) Work out the population density of Irwell.

(b) State the shading of Irwell on the map.

(c) How many of the five regions are shaded medium or lighter?

(Total for Question 8 is 4 marks)

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Mark scheme · 2.20 Choropleth Maps: 30-minute Pack

Question 1

adds all eight values	**M1**
3180 cao	**A1**
female minus male for the age group	**M1**
30 cao	**A1**

Answer: (a) 3180; (b) 30

Question 2

population divided by area	**M1**
60 cao	**A1**
medium (follows from their density)	**B1**
3 cao	**B1**

Answer: (a) 60; (b) medium; (c) 3

Question 3

males 1240, females 1140	**B1**
divides by a common factor	**M1**
62 : 57 cao	**A1**

Answer: (a) 1240, 1140; (b) 62 : 57

Question 4

720 cao	**B1**
720 / 3120 x 100	**M1**
23.1% cao	**A1**

Answer: (a) 720; (b) 23.1%

Question 5

population divided by area	**M1**
45 cao	**A1**
light (follows from their density)	**B1**
3 cao	**B1**

Answer: (a) 45; (b) light; (c) 3

Question 6

adds all eight values	**M1**
2890 cao	**A1**
female minus male for the age group	**M1**
-100 cao	**A1**

Answer: (a) 2890; (b) -100

Question 7

800 cao	**B1**
800 / 2600 x 100	**M1**
30.8% cao	**A1**

Answer: (a) 800; (b) 30.8%

Question 8

population divided by area	**M1**
20 cao	**A1**
light (follows from their density)	**B1**
2 cao	**B1**

Answer: (a) 20; (b) light; (c) 2

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