



S33-10min Population Pyramids: 10-minute Pack

EDEXCEL 1ST0 · Calculator allowed · about 10 minutes

Total Marks

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Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A population pyramid is a pair of back-to-back bar charts that shows the percentage (or number) of people of each sex in different age groups.
- (a)** In the population pyramids used in this pack, which axis shows the percentage of the population? **(1)**
- ☐ A) The vertical axis
- ☐ B) The horizontal axis
- (b)** Which side of a population pyramid conventionally shows the data for males? **(1)**
- ☐ A) The left-hand side
- ☐ B) The right-hand side
- (c)** What name is given to the vertical line that separates the male bars from the female bars? **(1)**

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(Total for Question 1 is 3 marks)

2 For each statement about population pyramids, write down whether it is True or False.

(i) A population pyramid always has an equal percentage of males and females in every single age group. **(1)**

(ii) The bars for males and females are usually drawn back-to-back around a shared central (vertical) axis. **(1)**

(iii) The percentages shown in a population pyramid must add up to 100% across all age groups and both sexes. **(1)**

(iv) A population pyramid with a wide base and a narrow top always means the country has a large elderly population. **(1)**

(Total for Question 2 is 4 marks)

3 The table shows the total percentage of the population (male and female combined) in each age group for a village.

Age group	0-14	15-29	30-44	45-59	60-74	75+
Percentage	21%	19%	17%	15%	13%	p%

Work out the value of p.

(Total for Question 3 is 2 marks)

Mark scheme · S33-10min Population Pyramids: 10-minute Pack

Question 1

- (a) **B1** B cao
- (a) **Answer: B) The horizontal axis**
- (b) **B1** A cao
- (b) **Answer: A) The left-hand side**
- (c) **B1** central axis / vertical axis / zero line, oe
- (c) **Answer: The central (vertical) axis**

Question 2

- (i) **B1** False cao
- (i) **Answer: False**
- (ii) **B1** True cao
- (ii) **Answer: True**
- (iii) **B1** True cao
- (iii) **Answer: True**
- (iv) **B1** False cao
- (iv) **Answer: False**

Question 3

- **M1** $100 - (21+19+17+15+13)$, oe
- **A1** $p = 15$ cao
- **Answer: $p = 15$**