

GCSE Exam Questions

Population Density | Ratio & Proportion



GCSE Exam Questions: Population Density

A town has a population of 210,000 people.
The population density is 3,500 people per km².
Calculate the area of the town.

										1/1	m^2	
										- K I		

(2 marks)

2) (a) A country has a population density of 4.27×10^3 . It has a land area of 2.38×10^5 .

Calculate the population of the country.

Give your answer in standard form correct to 3 significant figures.

people

(3)

(b) Give your answer to part (a) as an ordinary number.

people	 	 _	 	
(1)				
(4 marks)				



GCSE Exam Questions: Population Density

3)

Here is some information about the populations and areas of 3 different towns.

Country	Population	Area(km ²)
А	98 000	350
В	130 000	420
С	104 500	521

Which town has the lowest population density?

You must show your workings.

(3 marks)

2



GCSE Exam Questions: Population Density Answers

	Ques	tion			А	ns	wer	Marks			
1)	A tow The p km^2 .	vn has a pop population d Calculate th	oulation of 21 lensity is 350 e area of the	0 000 people 0 people per town.	e.	$210000 \div 3500$ Area = $60 \ km^2$					
2) (a)	A cou 4.27 : It has Calcu Give 3 sign	untry has a p x 10 ³ . s a land area alate the pop your answe nificant figu	oopulation de of 2.38 x 10 pulation of th r in standard ires.	nsity of ⁵ . e country. form correct	to (a	ı)	$(4.27 \times 10^3) \times (2.38 \times 10^5)$ =1,016,260,000 =1.02 × 10 ⁹ people	(1)(1)(1)			
(b)	Give numb	your answe ber.	r to part (a) a	s an ordinary	/ (t))	1,020,000,000	(1)			
3)	Here popu	is some info lations and a	ormation abo areas of 3 dif	ut the ferent towns.			A: $98000 \div 350 = 280 \text{ or}$				
	Country Population Area(km ²)						B: $130000 \div 420 = 309.32$ or				
		А	98 000	350		C: $104500 \div 521 = 200.57$	(1)				
		В	130 000	420			280 and 309 52 and 200 57	m			
		с	104 500 521								
	Whic densi	ty? You mu	the lowest po st show your	pulation workings.			Town C has the lowest population density	(1)			

Where to go next?

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