

Name:

Exam Style Questions

Population Density



Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 384a



Answers and Video Solutions



1. Maria says that "Population density is found by dividing area by the population."



Do you agree? Explain why.

.....

.....

(2)

2. 800 people live in a village.



The area of the village is 10km²

Work out the population density of the village

.....people per km²

(2)

3. The population of birds on an island is 3200



The population density of birds on the island is 200 per km²

Work out the area of the island.

.....km²

(2)

4. The population density of a housing estate is 900 people per km^2
The area of the housing estate is 3km^2



Work out the population of the housing estate.

.....
(2)

5. The population of a country is 380,000
The country's population density is 9 per square mile.



Work out the area of the country.
Give your answer in square miles.

.....square miles
(2)

6. The area of County Durham is 2720km^2
The population density of County Durham in 2021 was 318.6 per km^2



Work out the population of County Durham in 2021

.....
(2)

7. The population of a city is 496784
 The area of the city is 43.17 square miles



Work out the population density of the city.
 Give your answer to 1 decimal place.

.....people per square mile
(2)

8. Shown below is information about Australia and New Zealand in 2022.



	Australia	New Zealand
Area	7,620,000km ²	268,000km ²
Population	26,000,000	5,200,000

Danny says that the population density of Australia is 5 times greater than the population density of New Zealand.

Is Danny correct?
 Explain your answer.

.....

.....

.....

(4)

9. Last year, the population of an island was 8000.



The population density was 1.6 people per km^2

This year, the population density has decreased to 1.57 people per km^2

(a) Work out how fewer people live on the island this year.

.....
(3)

(b) Give an assumption that you have made in part (a)

.....
.....
(1)

10. A county is made up of two regions, A and B.



Region A has a population of 58000 and a population density of 480 people per km²

Region B has a population density of 125 people per km² and an area of 220 km²

Work out the population density for the county.

.....people per km²
(4)

11. The population of a country is 2.4×10^6



The area of the country is 2.5×10^4 km²

Work out the population density of the country.

.....people per km²
(4)

12. The table shows information about the areas of two counties, A and B.



	County A	County B
Area	2,000km ²	2,500km ²

The population of County A : population of County B = 2 : 1

Work out the population density of County A : the population density of County B

.....
(4)