Name:

**Exam Style Questions** 

## Random Sampling



Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

## Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

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Video 282



1.	Parker wants to take a random sample of people who live in his street.							
	(a) Explain what is meant by a random sample.							
		<b>(1</b> )						
	(b) Describe a method Parker could use to take his random sample.	(-/						
	(b) Describe a metrica i arker could use to take his random sample.							
		(1)						
2.	Gianluca is a farmer. He has 480 cows.							
	Gianluca wants to take a random sample of 20 cows.							
	Describe a method that Gianluca could use							
		(1)						

3.	A call centre has 800 workers. The building has 20 floors. Each floor has 40 workers.							
	Describe a method that could be used to obtain a random sample of 120 workers from the call centre.							
		(1)						
4.	(a) Explain how you could interview 10 employees randomly from a compa 600 employees.	any of						
		(1)						
	(b) Paul stood inside the company canteen on a Friday lunchtime and interviewed 10 employees.							
	Explain why his method will not give a random sample.							
		(1)						

5.	A school has 2000 students.  Explain how you could obtain a random sample of 35 students from this school.							
	(1)							
6.	Explain how you could obtain a random sample of 100 people from a town.							
	(1)							
7.	Describe a method of choosing a random sample of 20 students from a primary school of 141 students.							
	(1)							

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9.	A music shop owner receives 60 applicants for a job. He decides to take a random sample of 20% of the applicants to find out how many have a degree.					
	(a) Describe how this sample could be chosen.					
	(2)					
	The shop owner finds 4 applicants in his sample have a degree.					
	(b) Use this information to estimate how many of the 60 applicants have a degree					
	(1)					