

SAMPLE 11 • ASSESSMENT TEST FOR CEM (DURHAM UNIVERSITY) TESTS — Maths

Pupil's name:

Subject teacher:

CGP

Test date:

DATE OF BIRTH

Day Month Year

11 JUL 2008 11 JUL 2008

Please mark
like this: —

SAMPLE TEST

Answer multiple-choice
questions by marking
the correct box

For solve-in questions,
put the correct
number at the top
and mark it below.
You might need to use
one of the columns.

Section A

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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Answer 20 questions in this Section A and 20 questions in this Section B.
Work as quickly and as accurately as you can.

You can give multiple-choice answers to these questions. Some can be marked — give
an answer by writing in the box. If you 20 points to answer these by writing in boxes, either write
your answers in the spaces provided or circle the correct answer from the options given.

Section A — Quick Maths

You have 20 minutes to complete this section.
There are 10 questions in this section.

1. The circle has been split into equal parts. What fraction has been shaded?

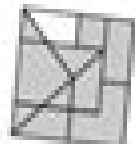
A $\frac{1}{2}$ B $\frac{1}{4}$ C $\frac{3}{4}$ D $\frac{1}{8}$ E $\frac{3}{8}$



2. Bill goes to a car rally. He buys a ticket of the most famous of the cars in motion.
122, 135, 140, 150, 125, 130, 138
What is the range of the times?

Answer

3. Tables in dining room shape pencils. What of the pencils
below will complete the pencils?



4. Which of the following is most likely to be the weight of a small case of school books?

A 25g B 2.5 kg C 2.5 g D 250g E 2g

5. Which of these numbers is 27?

A 40 B 400 C 4000 D 40000 E 400000

6. What of these clocks shows 10:10?



7. A road is 45 km long. Jack says 20 metres.
What is the total length of the road in metres?

Answer

8. Henry is 140 cm tall. Paul is 140 cm tall. Alice is exactly halfway
between the lengths of Henry and Paul. How tall is Alice?

Answer

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Carry on to the next question —

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Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Samle Cat Test Papers Year 9

1. Understanding the eBook Samle Cat Test Papers Year 9
 - The Rise of Digital Reading Samle Cat Test Papers Year 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Samle Cat Test Papers Year 9
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Samle Cat Test Papers Year 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Samle Cat Test Papers Year 9
 - Personalized Recommendations
 - Samle Cat Test Papers Year 9 User Reviews and Ratings
 - Samle Cat Test Papers Year 9 and Bestseller Lists
5. Accessing Samle Cat Test Papers Year 9 Free and Paid eBooks
 - Samle Cat Test Papers Year 9 Public Domain eBooks
 - Samle Cat Test Papers Year 9 eBook Subscription Services
 - Samle Cat Test Papers Year 9 Budget-Friendly Options
6. Navigating Samle Cat Test Papers Year 9 eBook Formats

- ePub, PDF, MOBI, and More
- Samle Cat Test Papers Year 9 Compatibility with Devices
- Samle Cat Test Papers Year 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Samle Cat Test Papers Year 9
 - Highlighting and Note-Taking Samle Cat Test Papers Year 9
 - Interactive Elements Samle Cat Test Papers Year 9
- 8. Staying Engaged with Samle Cat Test Papers Year 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Samle Cat Test Papers Year 9
- 9. Balancing eBooks and Physical Books Samle Cat Test Papers Year 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Samle Cat Test Papers Year 9
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Samle Cat Test Papers Year 9
 - Setting Reading Goals Samle Cat Test Papers Year 9
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Samle Cat Test Papers Year 9
 - Fact-Checking eBook Content of Samle Cat Test Papers Year 9
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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 $\int_0^{2\pi} (\cos^3 x - \cos^5 x) dx = \int_0^{2\pi} \cos^3 x dx - \int_0^{2\pi} \cos^5 x dx$
 $\int_0^{2\pi} \cos^3 x dx = \int_0^{2\pi} \cos x (1 - \cos^2 x) dx = \int_0^{2\pi} \cos x dx - \int_0^{2\pi} \cos^3 x dx$
 $\int_0^{2\pi} \cos x dx = \sin x \Big|_0^{2\pi} = 0 - 0 = 0$
 $\int_0^{2\pi} \cos^3 x dx = 0 - \int_0^{2\pi} \cos^3 x dx$
 $2 \int_0^{2\pi} \cos^3 x dx = 0$
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 $\int_0^{2\pi} \cos^5 x dx = \int_0^{2\pi} \cos^3 x \cos x dx = \int_0^{2\pi} \cos^3 x d(\sin x) = \int_0^{2\pi} (1 - \cos^2 x) \cos x d(\sin x)$
 $\int_0^{2\pi} \cos^5 x dx = \int_0^{2\pi} (\sin x - \sin^3 x) d(\sin x) = \int_0^{2\pi} (\sin x - \sin^3 x) d(\sin x)$
 $\int_0^{2\pi} \cos^5 x dx = \left[\frac{1}{2} \sin^2 x - \frac{1}{4} \sin^4 x \right]_0^{2\pi} = \left[\frac{1}{2} (0 - 0) - \frac{1}{4} (0 - 0) \right] = 0$

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