SAMPEL PERCUMA

Cambridge Checkpoint Stage 8 Maths Practice Paper + Mark Scheme

Set penuh: Cambridge Primary

Maths & Science Checkpoint

Sampel ini: 8 muka surat. Set penuh ada:

- 7 fail PDF
- Maths & Science Year 1–6 topical practice + answer key · 26 muka surat
- Cambridge Primary Maths & Science Y1–6
- Maths & Science A+ pack
- Maths A+ Practice Pack · 21 muka surat

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CAMBRIDGE LOWER SECONDARY

Checkpoint Practice Papers

Mathematics (0862) & Science (0893)
Stage 7 & Stage 8 — with full mark schemes

Updated August 2026 — Aligned to Cambridge Lower Secondary Framework

WHAT IS INSIDE

- **8 full practice papers** — Maths & Science, Stage 7 & Stage 8, Paper 1 and Paper 2 each
- Written in **English**, the language of the real Checkpoint tests
- Real Cambridge structure: **50 marks** a paper — Maths 1 hour, Science 45 minutes — with a non-calculator Maths Paper 1
- Every strand covered — Number, Algebra, Geometry & Measure, Statistics & Probability; Biology, Chemistry, Physics, Earth & Space
- **Thinking and Working Mathematically** and **Thinking and Working Scientifically** questions built in
- Cambridge command words: *work out, show that, explain, suggest, describe, predict*
- **Full mark schemes** in the real Cambridge five-column format, with part-mark ladders, accept lists and the official `oe` / `cao` / FT / `isw` abbreviations

Nightmew Studios · Original practice material written to the published Cambridge Lower Secondary curriculum frameworks for Mathematics (0862) and Science (0893).
Not endorsed by or affiliated with Cambridge Assessment International Education.

How Cambridge Checkpoint actually works

Cambridge Lower Secondary Checkpoint tests are taken at the end of Stage 9. The papers in this book use the same structure, timing and marking style, but the content is set at Stage 7 and Stage 8 so your child practises in the right format from the very start of lower secondary.

Mathematics (0862)

Paper	Time	Marks	Calculator	What it tests
Paper 1	1 hour	50	NOT allowed	Mental and written methods. Number sense, fractions and decimals without a calculator, algebra, angle facts, simple statistics.
Paper 2	1 hour	50	Allowed	Longer multi-step problems, percentages of awkward amounts, area and volume, averages from real data sets, graphs.

Science (0893)

Paper	Time	Marks	Calculator	What it tests
Paper 1	45 min	50	Allowed	Biology, Chemistry, Physics and Earth & Space mixed together in one paper — not separated by subject.
Paper 2	45 min	50	Allowed	Same mix again, with more experiment and data-handling questions.

> **The single biggest surprise for new Cambridge parents:** Checkpoint questions rarely ask "what is the definition of…". They give a situation — a results table, a diagram, a shop bill, a student's claim — and ask the child to *work something out*, *explain why*, or *say whether they agree*. Marks are given for the reasoning, not only the final number. That is why every paper in this book gives working space and why the mark schemes award method marks.

How marks are shown

- Each question part ends with its mark value in square brackets on the right, like this **[2]**
- Numbering runs **1**, then **(a)**, **(b)**. Maths papers stop there; Science papers occasionally add a third level, **(i)** and **(ii)**.
- The number of dotted lines is a hint: one line means a short answer, four lines means the examiner expects a real explanation.
- A box means "show your working here" — working earns marks even when the final answer is wrong.
- Cambridge does **not** print the word "Answer". It prints a ruled line with the unit already on it, so the child writes only the number. This book does the same.
- **Almost nothing is worth more than 3 marks**, and nothing over 4. Checkpoint is many short questions, not a few long ones. A practice book built around 10-mark essay questions is not Checkpoint practice.

1 **Work out** the value of each of these. NUMBER

(a) 2^4 ..... [1]

(b) $\sqrt{144}$ ..... [1]

(c) **Write** $5^2 \times 5^3$ as a single power of 5. ..... [1]

2 **Write** 60 as a product of its prime factors. Give your answer in index form. NUMBER [2]

.....

3 Expand and simplify where possible. ALGEBRA

(a) **Expand** $3(2x - 5)$ [1]

.....

(b) **Expand and simplify** $4(a + 3) - 2a$ [1]

.....

4 **Factorise** each expression fully. ALGEBRA

(a) $6x + 9$ ..... [1]

(b) $2x^2 + 8x$ ..... [2]

5 **Solve** $4x - 5 = 2x + 9$ ALGEBRA [3]

$x =$ .....

6 Here is a sequence. ALGEBRA TWM

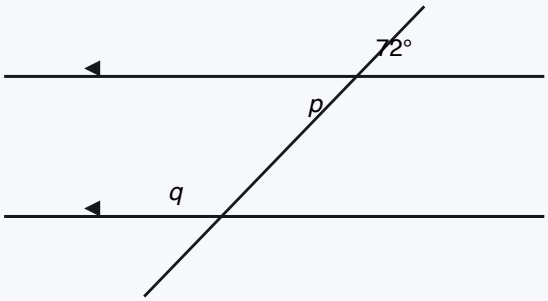
5 9 13 17 ...

(a) **Write down** an expression, in terms of n, for the nth term of this sequence. **[2]**

(b) **Work out** the 50th term of the sequence. **[2]**

7 The diagram shows two parallel lines crossed by a straight line. GEOMETRY & MEASURE

NOT TO SCALE



(a) **Work out** the size of angle p. **Give a reason** for your answer. **[2]**

p = ... °

(b) **Work out** the size of angle q. **Give a reason** for your answer. **[2]**

q = ... °

13 Two fair coins are thrown at the same time. STATISTICS & PROBABILITY

(a) **Complete** the table to show all the possible outcomes. **[2]**

	Coin 2: Head	Coin 2: Tail
Coin 1: Head	H, H	
Coin 1: Tail		

(b) **Write down** the probability of getting two heads. **[1]**

.....

14 Priya writes this in her book. NUMBER TWM

$$(-3)^2 = -9$$

(a) **Explain** why Priya is wrong. **[2]**

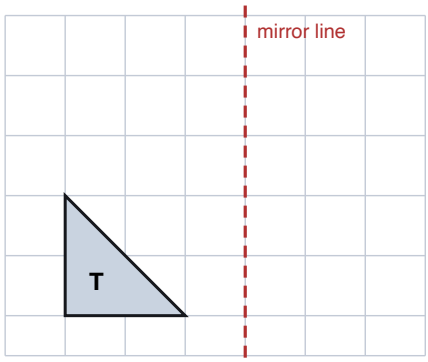
.....

.....

(b) **Write down** the correct value of $(-3)^2$. **[1]**

.....

15 The grid shows triangle **T** and a mirror line. **Reflect** triangle **T** in the mirror line. Label the image **T′**. GEOMETRY & MEASURE **[3]**



1 A circle has a radius of 7 cm. GEOMETRY & MEASURE

(a) **Work out** the circumference of the circle. Give your answer correct to one decimal place. **[2]**

..... cm

(b) **Work out** the area of the circle. Give your answer correct to one decimal place. **[2]**

..... cm^2

2 A cylinder has a radius of 3 cm and a height of 10 cm. **Work out** its volume. Give your answer correct to one decimal place. **[3]** GEOMETRY & MEASURE

..... cm^3

3 A laptop is priced at $850. NUMBER

(a) The price is reduced by 18% in a sale. **Work out** the sale price. **[2]**

$ .....

(b) A different laptop costs $492 after a 20% reduction. **Work out** its price before the reduction. **[3]**

$ .....

7 The table shows the times, in seconds, taken by 30 students to run 200 metres.

STATISTICS & PROBABILITY

Time, t (seconds)	$25 \le t < 30$	$30 \le t < 35$	$35 \le t < 40$	$40 \le t < 45$
Frequency	5	11	9	5

(a) **Write down** the modal class. **[1]**

.....

(b) **Write down** the class interval that contains the median. **[1]**

.....

(c) **Work out** the percentage of students who took less than 35 seconds. **[2]**

..... %

(d) **Explain** why you cannot work out the exact mean time from this table. **[1]**

.....

8 Two classes took the same test. The table shows their results. STATISTICS & PROBABILITY TWM

Class	Mean mark	Range
Class A	62	14
Class B	62	38

(a) **Compare** the performance of the two classes. Use both the mean and the range in your answer. **[2]**

.....

.....

.....

(b) A newspaper reports, "*Class A and Class B are exactly the same.*" **Explain** why this statement is not fair. **[1]**

.....

Maximum mark: 50. Marks shown in the Marks column are the total for that question part. The Part marks column shows how that total is split.

Question	Answer	Marks	Part marks	Guidance
1(a)	–8, –5, –1, 3	**1**		Must be in this order. `cao`
1(b)	11	**1**		Accept 11 °C. Do not accept –11.
1(c)	2	**1**		Accept 2 °C.
2(a)	22	**1**		Do not accept 42 (adding before multiplying).
2(b)	16	**1**		
3(a)	25 000	**1**		Accept 25000. Do not accept 24 000.
3(b)	600	**1**		Accept "six hundred". Do not accept 6 or "hundreds".
4(a)	$\frac{7}{8}$	**2**	Award 1 mark for $\frac{6}{8} + \frac{1}{8}$ `oe` or for a correct common denominator of 8 `soi`	Answer must be in simplest form. `isw` after a correct answer.
4(b)	24	**1**		Accept 60 ÷ 5 × 2 evaluated correctly.
5(a)	60	**2**	Award 1 mark for 20 seen (the discount) or for 80 × 0.75 `oe`	Accept $60. Do not accept 20 as the final answer.
5(b)	35	**1**		Accept 35%.
6(a)	$6x$	**1**		`cao`
6(b)	17	**1**		Do not accept 5 × 4 – 3 without evaluation.
6(c)	$2(n + 8)$	**1**		Accept $2n + 16$ `oe`.
7(a)	$x = 8$	**1**		Accept 8.
7(b)	$y = 5$	**2**	Award 1 mark for $3y = 15$ `oe` or for a correct first step of adding 4 to both sides	
8(a)	21 and 25	**1**		Both required for the mark.

TAMAT SAMPEL

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