SAMPEL PERCUMA

Cambridge Checkpoint Stage 7 Maths Practice Paper + Mark Scheme

Set penuh: Cambridge Primary

Maths & Science Checkpoint

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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.

Curriculum coverage map

Every question in this book sits in one of these strands. Tick a row once your child can handle it without help. Anything left unticked is where the revision time should go.

Mathematics (0862) — the four content strands

Strand	Stage 7 in this book	Stage 8 in this book
Number	Negative numbers, place value, rounding, order of operations, fractions/decimals/percentages, simple ratio	Indices and powers, prime factor form, percentage increase and decrease, reverse percentages, ratio and direct proportion, rates
Algebra	Writing and simplifying expressions, substitution, one- and two-step linear equations, sequences and term-to-term rules, coordinates	Expanding single brackets, factorising, equations with the unknown on both sides, position-to-term rules, straight-line graphs, inequalities on a number line
Geometry and Measure	Angle facts on lines and at points, angles in triangles and quadrilaterals, properties of 2D shapes, perimeter and area of rectangles and triangles, units of measure	Angles in parallel lines, area of parallelogram and trapezium, circumference and area of a circle, volume and surface area of prisms, transformations, bearings and scale drawing
Statistics and Probability	Collecting data, tally and frequency tables, bar charts, mode, median, mean and range, probability scale and simple outcomes	Grouped frequency, comparing two data sets, misleading graphs, mean from a frequency table, probability of combined events, experimental vs theoretical probability

Thinking and Working Mathematically (TWM) runs through every strand. The eight characteristics come in four pairs: **Specialising and Generalising** (try examples, then find the rule), **Conjecturing and Convincing** (make a claim, then justify it), **Characterising and Classifying** (describe properties, then sort), **Critiquing and Improving** (find the fault in a method, then fix it). Questions tagged TWM in this book target these directly — they are the questions Malaysian workbooks almost never contain.

5 A shirt costs \$80. In a sale the price is reduced by 25%. NUMBER

(a) **Work out** the sale price of the shirt. **[2]**

\$ .....

(b) **Write** 0.35 as a percentage. **[1]**

..... %

6 Here are some algebraic expressions. ALGEBRA

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

.....

(b) $n = 4$. **Work out** the value of $5n - 3$. **[1]**

.....

(c) Ravi thinks of a number, n. He adds 8 to it and then multiplies the result by 2. **Write down** an expression for Ravi's final number. **[1]**

.....

7 **Solve** these equations. ALGEBRA

(a) $x + 7 = 15$ **[1]**

$x =$ .....

(b) $3y - 4 = 11$ **[2]**

$y =$ .....

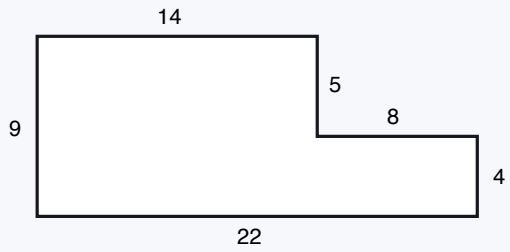
10 Here are four shapes. GEOMETRY & MEASURE TWM [3]

Shape	Square	Rhombus	Parallelogram	Kite
All four sides equal?				
Two pairs of parallel sides?				

Complete the table. Write **Yes** or **No** in each empty box.

11 The diagram shows a shape made from two rectangles. All lengths are in centimetres.
GEOMETRY & MEASURE

NOT TO SCALE



(a) **Work out** the perimeter of the shape. [2]

..... cm

(b) **Work out** the area of the shape. [2]

..... cm^2

12 **Complete** these statements. GEOMETRY & MEASURE

(a) 3.5 metres = ... centimetres [1]

(b) 2400 grams = ... kilograms [1]

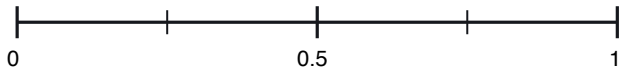
15 A bag contains 5 red counters and 3 blue counters. One counter is taken at random.

STATISTICS & PROBABILITY

(a) **Write down** the probability that the counter is blue. **[1]**

.....

(b) On the probability scale below, mark with a cross (×) the probability that the counter is **red or blue**. Label it **A**. Then mark with a cross the probability that the counter is **green**. Label it **B**. **[2]**



16 Jamal is working out $\frac{1}{2} + \frac{1}{3}$. Here is his working. NUMBER TWM

$$\frac{1}{2} + \frac{1}{3} = \frac{(1+1)}{(2+3)} = \frac{2}{5}$$

(a) **Explain** what Jamal has done wrong. **[2]**

.....

.....

(b) **Work out** the correct answer. **[1]**

.....

1 A school shop records what it sold on Monday. NUMBER

Item	Price each	Number sold
Pen	$1.40	35
Notebook	$3.25	18
Ruler	$0.85	24

(a) **Work out** the total amount of money taken for notebooks. **[2]**

$ .....

(b) **Work out** the total amount of money the shop took on Monday. **[3]**

$ .....

2 A shop sells a bag for $45. In a sale, the price is reduced by 20%. NUMBER

(a) **Work out** the sale price of the bag. **[2]**

$ .....

(b) A service charge of 6% is then added to the sale price. **Work out** the final amount the customer pays. **[3]**

$ .....

3 A recipe for 5 loaves of bread uses 800 g of flour. NUMBER

(a) **Work out** the mass of flour needed for 8 loaves. **[2]**

.....g

(b) Flour is sold in 1.5 kg bags. **Work out** the smallest number of bags needed for 8 loaves. **[2]**

.....

4 Money is shared between Amira and Ben in the ratio 2 : 3. NUMBER

(a) **Write down** the ratio 24 : 36 in its simplest form. **[1]**

.....

(b) $120 is shared between Amira and Ben in the ratio 2 : 3. **Work out** how much each person receives. **[3]**

Amira $..... Ben $.....

Question	Answer	Marks	Part marks	Guidance
10(c)	100	**2**	Award 1 mark for 400 × their (b) attempted	FT their (b) provided it is a probability between 0 and 1.
10(d)	Any **two** from: • results vary by chance, especially over a limited number of spins • the spinner may not be fair (biased) • 400 trials may still not be enough for the experimental probability to settle	**2**	Award 1 mark for each acceptable reason, maximum 2	Do not accept "the student counted wrongly" without further explanation. Do not accept two reasons that say the same thing.
11	Trader A 360 and Trader B 480	**3**	Award 2 marks for one correct share or Award 1 mark for 840 ÷ 7 (= 120) seen	Both shares required for 3 marks. Shares must be clearly labelled.
12(a)	25 200	**2**	Award 1 mark for 1200 seen (the increase) or for 24 000 × 1.05 oe	
12(b)	26 460	**2**	Award 1 mark for their (a) × 1.05 attempted	FT their (a). Common error: 24 000 × 1.10 = 26 400 scores 0 — percentage growth compounds, it does not simply add.
13(a)	064	**1**		Must be three figures. Do not accept 64 or 64° without the leading zero.
13(b)	244	**2**	Award 1 mark for 64 + 180 attempted FT their (a)	Accept 244°. Back bearings differ by 180°.

TAMAT SAMPEL

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