THE INTERNATIONAL SCHOOL BANGALORE

PRIMARY YEARS | SAMPLE ENTRANCE PRACTICE PAPER

ENTRY INTO GRADE 4

Time allowed: 60 minutes English: 20 marks Mathematics: 20 marks Total: 40 marks

Instructions: Read carefully. Answer in your own words where possible. Show your working in Mathematics. Plan your writing and check your answers.

This is an original practice paper for families, not the actual admissions assessment.

A. ENGLISH – READING (10 marks)

Testing a Rainwater Collector

The school eco-club noticed that water from a roof was flowing onto the path during heavy rain. They wanted to collect some of it to water the garden. Their first design used a wide funnel and a small bottle. During a short test, water splashed over the bottle's narrow opening.

Nikhil suggested connecting the funnel to a tube, while Sara proposed using a larger container. Their second model collected more water, but the tube bent sharply and slowed the flow. The students straightened the tube and placed the container on a stable platform.

In their final test, the container held nearly all the water poured into the funnel. The club was excited, but Sara pointed out that their test used clean water poured from a jug. Real rain might carry leaves and dirt that could block the tube. The group recorded their results and recommended testing the collector outside before installing it.

1. What problem did the eco-club notice? (1 mark)

_____

2. Why did the first design lose water? (1 mark)

_____

3. Identify TWO improvements the students made to their design. (2 marks)

_____

_____

4. What does 'stable' mean in this passage? (1 mark)

_____

5. What evidence suggested the final model worked better? (1 mark)

_____

6. Why might the final model still fail during real rain? Explain TWO points. (2 marks)

_____

_____

7. What does the passage teach about testing designs? Support your answer with an example. (2 marks)

_____

_____

B. ENGLISH – WRITING (10 marks)

Write a short report to the school eco-club about the rainwater collector project. Include the problem, the first test, improvements, final results and one recommendation. Use a heading and organised paragraphs. Write approximately 130–160 words.

Plan your ideas:

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Write your response:

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C. MATHEMATICS (20 marks)

Show your method for multi-step and explanation questions. Use the working space provided.

1. Write 5,307 in expanded form. Explain what the zero represents. [2 marks]

_____

_____

2. A store had 3,260 notebooks. It received 1,475 more and sold 890. How many remain? [3 marks]

_____

_____

_____

3. A hall has 9 rows of 7 chairs. If 48 are occupied, how many chairs are empty? [3 marks]

_____

_____

_____

4. Eighty-four plants are shared equally among 7 classes. Each class receives 5 more plants. How many does each class have? [3 marks]

_____

_____

_____

5. A 5 m ribbon is cut into pieces of 145 cm and 175 cm. How many centimetres remain? [3 marks]

_____

_____

_____

6. Is 5/8 greater than 1/2? Show equivalent fractions or a diagram. [2 marks]

_____

_____

7. Books borrowed: Monday 18, Tuesday 27, Wednesday 35, Thursday 20. Find the total and the busiest day. [2 marks]

_____

_____

8. Find the missing number: 8 × __ = 72. Write a related division fact. [2 marks]

_____

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PRIMARY YEARS | SAMPLE ANSWER KEY

ENTRY INTO GRADE 4

A. Reading – Self-Assessment Answer Key (10 marks)

Read your answers and compare them with the suggested responses below. Your answers may be worded differently, as long as they show the same understanding.

(1 mark) Rainwater from the roof flowed onto the path.

(1 mark) Water splashed over the narrow opening of the small bottle.

(2 marks) Added a tube, used a larger container, straightened the tube or made the container more stable. Any two correct changes.

(1 mark) Steady, secure or unlikely to tip over.

(1 mark) It collected nearly all the water poured into the funnel.

(2 marks) Real rainwater may contain leaves or dirt (1 mark), which could block the tube, unlike the clean water used during testing (1 mark).

(2 marks) Testing helps identify problems and improve designs (1 mark). For example, the group straightened the bent tube or recognised the need to test outdoors (1 mark).

How to check your answers: Give yourself credit for answers that communicate the same meaning, even if you have used different words. For 2-mark questions, check that you have included two relevant points. Small spelling mistakes are acceptable if your meaning is clear.

B. Writing – Self-Assessment Guide (10 marks)

Read your report again and use the guide below to reflect on your writing. Choose the score that best describes your work.

What to check	How to give yourself marks
Ideas and details (3 marks)	3: I have addressed all parts of the task with clear, developed explanations. 2: I have included the main information with some details. 1: My information is limited or incomplete. 0: My writing does not address the task.
Organisation (3 marks)	3: My report has a suitable heading, clear paragraphs and information in a logical order. 2: My report is mostly organised and easy to follow. 1: Some information is confusing or out of order. 0: My report has no clear organisation.
Sentences, spelling and punctuation (2 marks)	2: My sentences are clear, with mostly correct spelling, capital letters and punctuation. 1: I have made some mistakes, but my meaning is clear. 0: My mistakes make the report difficult to understand.

My writing checklist

- I have included a clear and suitable heading.
- I have explained the problem the group wanted to solve.
- I have described the tests and what the group discovered.
- I have explained the changes made to improve the design.
- I have included the final outcome and a recommendation.
- I have organised my ideas into paragraphs and checked my spelling and punctuation.

Remember: A good report explains what happened, how the problem was investigated, what was learned and what could be improved. Focus on communicating information clearly rather than simply writing more.

My self-assessment score: _____ / 10

One thing I did well: _____

One thing I can improve: _____

C. Mathematics answer key (20 marks)

1. (2 marks) 5,000 + 300 + 7; zero means no tens.

2. (3 marks) 3,260 + 1,475 = 4,735; 4,735 − 890 = 3,845.

3. (3 marks) 9 × 7 = 63; 63 − 48 = 15.

4. (3 marks) 84 ÷ 7 = 12; 12 + 5 = 17.

5. (3 marks) 500 − 145 − 175 = 180 cm.

6. (2 marks) Yes; 1/2 = 4/8, so 5/8 > 4/8.

7. (2 marks) 100 books; Wednesday.

8. (2 marks) 9; 72 ÷ 8 = 9 (or 72 ÷ 9 = 8).

Self-Assessment Guidance: Check your answers against the sample answer key. Give yourself credit for using a correct method and explaining your reasoning clearly, even if you have made a calculation error. Remember, there may be more than one correct way to solve a problem.

Practice score record

Reading: ____ / 10 Writing: ____ / 10 Mathematics: ____ / 20 Total: ____ / 40