Proficiency Tests

Mathematics

Continual Assessment & Semestral Assessment

4

SAMPLE

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PREFACE

Proficiency Tests Mathematics Continual Assessment & Semestral Assessment Primary 4 is designed to assess **Primary 4** students in their understanding and application of mathematical concepts, skills and processes.

Table of Contents

This shows clearly the topic focus for each Mock Examination. The trial test papers cover the two semesters in the school term. The last two examinations are final practice papers encompassing all the topics covered in the earlier examinations; marks obtained in the examinations can be recorded here.

Mock Examinations

There are 8 Mock Examinations: 2 sets of CA 1 papers, 2 sets of SA 1 papers, 2 sets of CA 2 papers and 2 sets of SA 2 papers. They are written in accordance with the latest Primary Mathematics syllabus and cover work to be done in an entire school term. Questions are specially crafted to help students in mastering problem-solving skills and boost their confidence in tackling questions in their school examinations.

Answers

The answer scheme contains **fully worked solutions** to all the questions in the Mock Examinations.

It is hoped that students who have worked through this book will find this book a useful resource of the types of questions and workings to be expected in an important school examination.



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The Editorial Team

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1st HALF OF THE SCHOOL YEAR

Trial Test 1 (CA 1) 1-14

Tests on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples

Trial Test 2 (CA 1) 1-14

Tests on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples

Trial Test 3 (SA 1) 1-16

Practice examination which tests on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples
- Angles
- Squares and Rectangles
- Symmetry

Trial Test 4 (SA 1) 1-16

Practice examination which tests on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples
- Angles
- Squares and Rectangles
- Symmetry

2nd HALF OF THE SCHOOL YEAR

Trial Test 5 (CA 2) 1-16

Tests and revises on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples
- Angles
- Squares and Rectangles
- Symmetry
- Fractions
- Decimals

Trial Test 6 (CA 2) 1-16

Tests and revises on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples
- Angles
- Squares and Rectangles
- Symmetry
- Fractions
- Decimals

Trial Test 7 (SA 2) 1-16

Practice examination which tests on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples
- Angles
- Squares and Rectangles
- Symmetry
- Fractions
- Decimals
- Area and Perimeter
- Tables and Line Graphs
- Time

Trial Test 8 (SA 2) 1-16

Practice examination which tests on mathematical knowledge, comprehension, application & analysis with focus on:

- Whole Numbers
- Factors and Multiples
- Angles
- Squares and Rectangles
- Symmetry
- Fractions
- Decimals
- Area and Perimeter
- Tables and Line Graphs
- Time

WORKED SOLUTIONS S1-S19

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Name	Class	Date

Primary 4

MATHEMATICS

TRIAL TEST *1* (CA 1)

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INSTRUCTIONS

Total time for Booklets A and B: 2 h 15 min

BOOKLET A

MULTIPLE-CHOICE QUESTIONS [20 marks]

BOOKLET B

SHORT-ANSWER [30 marks]

STRUCTURED / LONG-ANSWER [50 marks]

BOOKLET	MARKS
A	/ 20
B	/ 30
	/ 50
TOTAL	/ 100

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BOOKLET A

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, choose the correct answer and write its number (1, 2, 3 or 4) in the brackets provided. [20 m]

1. What is sixty thousand, four hundred and twenty-five in numerals?

(1) 16 425
(2) 16 452
(3) 60 425
(4) 60 452
( )

2. Arrange the digits 3, 6, 2 and 9 to form the smallest 4-digit even number.

(1) 2369
(2) 2396
(3) 2639
(4) 2693
( )

3. In 65 207, the digit 2 is in the _____ place.

(1) tens
(2) hundreds
(3) thousands
(4) ten thousands
( )

4. In 78 936, the value of the digit 8 is _____.

(1) 80
(2) 800
(3) 8000
(4) 80 000
( )

5. Which of the following shows the common factors of 12 and 15?

(1) 1 and 2
(2) 1 and 3
(3) 2 and 3
(4) 3 and 4
( )

6. Multiply the second multiple of 9 by 12.

(1) 18
(2) 54
(3) 108
(4) 216
( )

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7. Which of the following sets of numbers is in ascending order?

(1) 35 746, 36 740, 36 704, 35 476
(2) 35 476, 35 746, 36 704, 36 740
(3) 36 704, 36 740, 35 746, 35 740
(4) 36 740, 36 704, 35 740, 35 746 ( )

8. Which of the following sets of numbers is in descending order?

(1) 56 498, 58 496, 45 968, 49 685
(2) 45 968, 56 498, 49 685, 58 496
(3) 49 685, 45 968, 58 496, 56 498
(4) 58 496, 56 498, 49 685, 45 968 ( )

9. 40 000 + 8000 + 90 + 5 = _____

(1) 4895
(2) 40 895
(3) 48 095
(4) 48 905 ( )

10. Which of the following are factors of 24?

(1) 3, 4, 6
(2) 3, 6, 9
(3) 6, 9, 12
(4) 6, 12, 14 ( )

11. Which of the following is **not** a factor of 18?

(1) 3
(2) 4
(3) 6
(4) 9 ( )

12. Which of the following are multiples of 7?

(1) 14, 28, 36
(2) 21, 35, 44
(3) 38, 56, 63
(4) 35, 62, 70 ( )

13. Which of the following is **not** a multiple of 6?

(1) 24
(2) 36
(3) 54
(4) 70 ( )

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14. 30 000 more than 303 is _____.

(1) 30 033
(2) 30 303
(3) 33 033
(4) 33 303

( )

15. 6000 less than 56 065 is _____.

(1) 50 065
(2) 51 065
(3) 56 665
(4) 62 065

( )

BOOKLET B

Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. For questions 26 to 35, show your working clearly in the space given. Write your answers on the lines provided. For questions that require units, these units are provided. Give your answers in the stated units. **[30 m]**

16. Write 54 670 in words.

_____

17. There are 248 tens in ☐.

18. What are the first 3 multiples of 7?

_____

19. Round off 76 984 to the nearest thousand.

_____

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20. Complete the number pattern.

379, 478, _____, 676, _____

21. List all the common factors of 24 and 30.

_____

22. Write twenty-seven thousand, nine hundred and twelve in numerals.

_____

23. Arrange the following numbers in increasing order.

54 125 45 215 24 515 52 145

_____ _____ _____ _____

24. 33 220 is _____ less than 33 320.

_____

25. Use the digits 1, 8, 3, 7 and 6 to form the greatest 5-digit odd number.

_____

26. Write two even numbers smaller than 28 634 using all the digits in the number.

_____

_____

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27. 640 more than ☐ is 5700.

_____

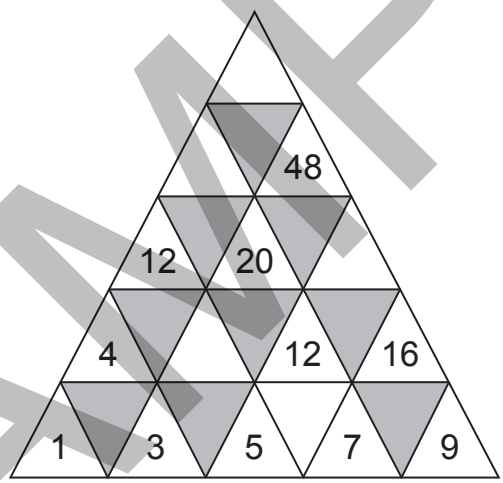
28. (a) Write down the factors of 16.

_____

(b) Write down the first eight multiples of 9.

_____

29. Complete the number pattern below.



30. What is the sum of the 3rd and 9th multiples of 4?

_____

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31. Number Z is a factor of 99. If number Z is a two-digit number and the sum of the two digits is 6, what is number Z?

_____

32. There were 5095 books in a library. If another 3186 books were on loan, how many books were in the library at first? Round off your answer to the nearest thousand.

_____ books

33. (a) 48 = 6 × ☐ _____

(b) 64 = ☐ × 8 _____

34. 100 thousands = ☐ ten thousands + 70 hundreds + 300 tens

_____

35. (a) Round off 79 486 to the nearest hundred.

_____

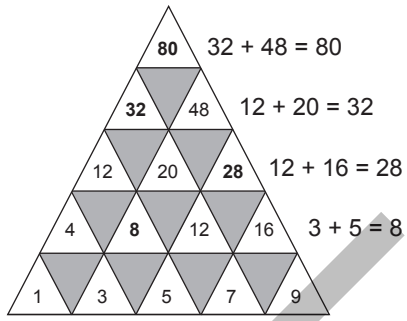
(b) Round off 79 486 to the nearest thousand.

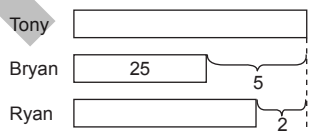
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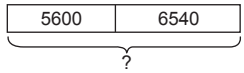
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TRIAL TEST 1 (CA1)

1. **(3)**
2. **(2)**
3. **(2)**
4. **(3)**
5. **(2)**
   Factors of 12 : 1, 2, 3, 4, 6 and 12
   Factors of 15 : 1, 3, 5 and 15
   Common factors of 12 and 15 : 1 and 3
6. **(4)**
   18 × 12 = 216
7. **(2)**
   The smallest number is 35 476 and the greatest number is 36 740.
8. **(4)**
9. **(3)**
10. **(1)**
11. **(2)**
12. **(3)**
13. **(4)**
14. **(2)**
    30 000 + 303 = 30 303
15. **(1)**
    56 065 – 6000 = 50 065
16. **fifty-four thousand, six hundred and seventy**
17. **2480**
    248 × 10 = 2480
18. **7, 14, 21**
19. **77 000**
20. **577; 775**
    478 – 379 = 99
    478 + 99 = 577
    676 + 99 = 775
21. **1, 2, 3 and 6**
    Factors of 24: 1, 2, 3, 4, 6, 8, 12 and 24
    Factors of 30: 1, 2, 3, 5, 6, 10, 15 and 30
    Common factors of 24 and 30 : 1, 2, 3 and 6
22. **27 912**
23. **24 515 45 215 52 145 54 125**
24. **100**
    33 320 – 33 220 = 100
25. **87 631**
26. **26 834**
    24 836
27. **5060**
    5700 – 640 = 5060
28. **(a) 1, 2, 4, 8 and 16**
    (b) 9, 18, 27, 36, 45, 54, 63 and 72
29. 

30. **48**
    12 + 36 = 48
31. **33**
    Factors of 99: 1, 3, 9, 11, 33 and 99
    6 = 3 + 3
    Number Z is 33.
32. **8000**
    5095 + 3186 = 8281 ≈ 8000
33. **(a) 8**
    (b) 8
34. **9**
    7000 + 3000 = 10 000
    100 thousands – 10 thousands
    = 90 thousands
    = 9 ten thousands
35. **(a) 79 500**
    (b) 79 000
36. **58 books**
    

    25 + 5 = 30
    Tony read 30 books.
    30 – 2 = 28
    Ryan read 28 books.
    30 + 28 = 58
    Tony and Ryan read 58 books altogether.
37. **8460 red and white beads**
    

    5600 + 6540 = 12 140
    There were 12 140 red and white beads.
    12 140 – 3680 = 8460
    8460 red and white beads were left in the bag.
38. **$1200**
    5 × $8 = $40
    She earns $40 a day.
    30 × $40 = $1200
    She will earn $1200 in 30 days.

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