Proficiency Tests

Mathematics

Continual Assessment & Semestral Assessment

5

SAMPLE

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PREFACE

Proficiency Tests Mathematics Continual Assessment & Semestral Assessment Primary 5 is designed to assess **Primary 5** 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) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle

Trial Test 2 (CA 1) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle

Trial Test 3 (SA 1) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle
Ratio
Volume of Cubes and Cuboids

Trial Test 4 (SA 1) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle
Ratio
Volume of Cubes and Cuboids

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
Fractions and Mixed Numbers
Area of a Triangle
Ratio
Volume of Cubes and Cuboids
Decimals
Percentage
Average
Rate
Angles

Trial Test 6 (CA 2) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle
Ratio
Volume of Cubes and Cuboids
Decimals
Percentage
Average
Rate
Angles

Trial Test 7 (SA 2) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle
Ratio
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Trial Test 8 (SA 2) 1-16

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

Whole Numbers
Fractions and Mixed Numbers
Area of a Triangle
Ratio
Volume of Cubes and Cuboids
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Percentage
Average
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Angles
Triangles and Quadrilaterals

WORKED SOLUTIONS S1-S24

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Name	Class	Date

Primary 5

MATHEMATICS

TRIAL TEST *1* (CA 1)

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INSTRUCTIONS

PAPER 1 (The use of calculators is **not** allowed.)

Total time for Booklets A and B: 50 min

BOOKLET A: MULTIPLE–CHOICE [20 marks]

BOOKLET B: SHORT–ANSWER [20 marks]

PAPER 2 (The use of calculators is allowed.)

Time for Paper 2: 1 h 40 min

SHORT-ANSWER [10 marks]

STRUCTURED / LONG–ANSWER [50 marks]

PAPER	BOOKLET	MARKS
1	A	/ 20
	B	/ 20
2		/ 10
		/ 50
TOTAL		/ 100

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PAPER 1 (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. Four million, seven hundred and sixty-eight thousand, one hundred and thirty-nine written in numerals is _____.

(1) 4 760 139
(2) 4 768 113
(3) 4 768 139
(4) 4 786 139
( )

2. Find the value of $77 - 42 \div 7 \times 4$.

(1) 20
(2) 49
(3) 53
(4) 284
( )

3. 137 211 written in words is _____.

(1) one hundred, thirty-seven, two hundred and eleven
(2) one hundred and thirty-seven hundred, two hundred and eleven
(3) one hundred and thirty-seven thousand, two hundred and eleven
(4) one hundred and thirty thousand, seventy-two hundred and eleven
( )

4. Which of the following does not give the same value as the others?

(1) $1\frac{4}{5} + 2\frac{1}{10}$
(2) $1\frac{3}{10} + 2\frac{3}{5}$
(3) $5\frac{2}{5} - 1\frac{1}{2}$
(4) $4\frac{7}{10} - 1\frac{2}{5}$
( )

5. What is $\frac{5}{4}$ of 32?

(1) 8
(2) 16
(3) 40
(4) 80
( )

6. Andrea bought 12 eggs. If the eggs were sold at 3 for 50 cents, how much did she pay?

(1) 150 cents
(2) 180 cents
(3) 200 cents
(4) 600 cents
( )

7. There are 428 pages in a storybook. How many pages are there in 18 such storybooks?

(1) 7064
(2) 7407
(3) 7704
(4) 7740
( )

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8. Farmer Smith packed an equal number of oranges into 15 baskets. If each basket contained 85 oranges, how many oranges did Farmer Smith pack?

(1) 100
(2) 1275
(3) 1527
(4) 1725 ( )

9. A DVD player costs 11 times as much as a radio. If both items cost $3000, find the cost of the radio.

(1) $150
(2) $250
(3) $1650
(4) $2750 ( )

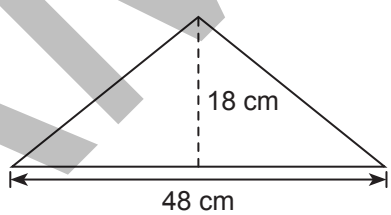
10. Joe ran 4 times round a running track. Find the total distance he had run if the distance around the running track was 1200 m.

(1) 0.3 km
(2) 1.6 km
(3) 4.8 km
(4) 6 km ( )

11. Anthony had a square cardboard of sides 40 cm. The cardboard was cut into 4 equal triangles. Find the area of each triangle.

(1) 10 cm^2
(2) 80 cm^2
(3) 400 cm^2
(4) 800 cm^2 ( )

12. The base of a triangle shown below is 48 cm and its height is 18 cm. Find its area.



(1) 216 cm^2
(2) 432 cm^2
(3) 864 cm^2
(4) 1728 cm^2 ( )

13. Gina sold 1008 watches last month. She sold 179 more watches this month than last month. How many watches did she sell in both months?

(1) 1187
(2) 1837
(3) 2195
(4) 2374 ( )

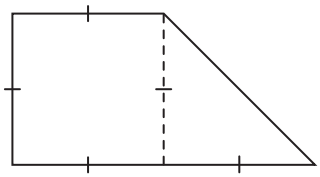
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14. Find the difference between (8720 × 10) and 15 498.

(1) 71 702
(2) 71 720
(3) 77 001
(4) 77 210 ( )

15. The figure below is made up of a square and a triangle. If each side of the square is 24 cm, find the area of the figure.



(1) 288 cm^2
(2) 576 cm^2
(3) 720 cm^2
(4) 864 cm^2 ( )

PAPER 1 (BOOKLET B)

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each. For questions 26 to 30, 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. [20 m]

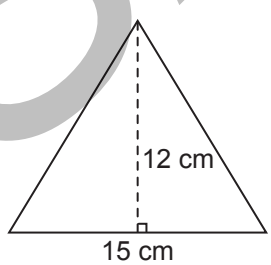
16. Write 4 310 422 in words.

_____

17. Find the value of (36 ÷ 9) × 4 – 10 + 8.

Ans: _____

18. Find the area of a triangle shown below.



Ans: _____ cm^2

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19. Joe gave 18 comics to Keith. As a result, Keith had 90 more comics than Joe. How many more comics did Keith have than Joe at first?

Ans: _____ comics

20. Evaluate $35 \times 3\frac{1}{5}$.

Ans: _____

21. A carpet has a length of $\frac{7}{10}$ m and a breadth of $\frac{5}{8}$ m. What is the area of the carpet?

Ans: _____

22. 400 hundreds + ☐ tens + 3 hundreds + 42 ones = 48 542

What is the missing number in the box?

Ans: _____

23. What is the product of $\frac{4}{5}$ and $\frac{9}{8}$? Give your answer in its simplest form.

Ans: _____

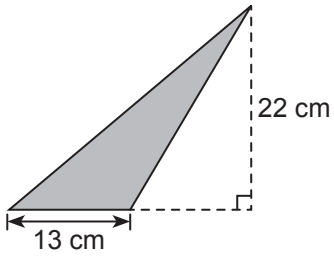
24. How many thousands are there in 7 480 000?

Ans: _____

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25. Find the area of the shaded triangle.



Ans: _____ cm^2

26. Joe collected 4096 trading cards. His brother collected 248 fewer cards than Joe. How many trading cards did they collect altogether?

Ans: _____ trading cards

27. Evaluate $4\frac{1}{3} - 1\frac{3}{4}$.

Ans: _____

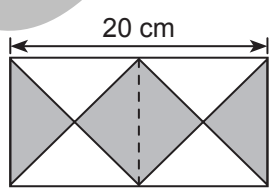
28. Stella has a ribbon $5\frac{5}{6}$ m long. She uses $\frac{4}{7}$ of it to tie a parcel. How much ribbon has she left?

Ans: _____ m

29. Gary bought 5 notebooks at $4 each and had $31 left. How much money did he have at first?

Ans: $_____

30. The figure below shows 8 identical triangles in 2 squares. Find the total area of the shaded triangles.



Ans: _____ cm^2

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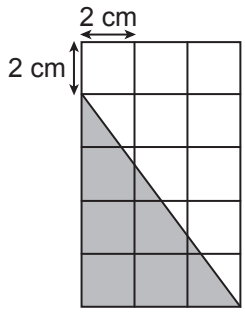
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PAPER 2

Questions 1 to 5 carry 2 mark each. 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.

[10 m]

1. Find the area of the shaded parts.



Ans: _____ cm^2

2. Sarah had thrice as much money as Elaine. If they had $224 altogether, how much money did Elanie have?

Ans: $_____

3. Angeline had $8450. She bought 3 similar toasters at $149 each. How much money had she left? Express your answer to the nearest thousand dollars.

Ans: $_____

4. What is the sum of $1\frac{1}{2}$ and the difference between $3\frac{4}{5}$ and $2\frac{1}{5}$?

Ans: _____

5. Three similar pens and two similar books cost $26. Two such pens and two such books cost $22. Find the cost of each pen.

Ans: $_____

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TRIAL TEST 1 (CA1)

Paper 1

1. (3)

2. (3)

$77 - 42 \div 7 \times 4 = 77 - 6 \times 4$
$= 77 - 24$
$= 53$

3. (3)

4. (4)

$1\frac{4}{5} + 2\frac{1}{10} = 1\frac{8}{10} + 2\frac{1}{10}$
$= 3\frac{9}{10}$

$1\frac{3}{10} + 2\frac{3}{5} = 1\frac{3}{10} + 2\frac{6}{10}$
$= 3\frac{9}{10}$

$5\frac{2}{5} - 1\frac{1}{2} = 5\frac{4}{10} - 1\frac{5}{10}$
$= 4\frac{14}{10} - 1\frac{5}{10}$
$= 3\frac{9}{10}$

$4\frac{7}{10} - 1\frac{2}{5} = 4\frac{7}{10} - 1\frac{4}{10}$
$= 3\frac{3}{10}$

5. (3)

$\frac{5}{4} \times 32 = \frac{5}{\cancel{4}_{1}} \times \overset{8}{\cancel{32}}$
$= 40$

6. (3)

3 eggs → 50¢
12 eggs → 50¢ × 4
= 200¢

7. (3)

428 × 18 = 7704

8. (2)

85 × 15 = 1275

9. (2)

12 units → $3000
1 unit → $3000 ÷ 12 = $250

10. (3)

1200 m × 4 = 4800 m
= 4.8 km

11. (3)

40 cm × 40 cm = 1600 cm²
1600 cm² ÷ 4 = 400 cm²

12. (2)

$\frac{1}{2} \times 48$ cm × 18 cm = 432 cm²

13. (3)

1008 + 179 = 1187 (this month)
1187 + 1008 = 2195 (both months)

14. (1)

8720 × 10 = 87200
87200 – 15498 = 71702

15. (4)

24 cm × 24 cm = 576 cm²
$\frac{1}{2} \times 24$ cm × 24 cm = 288 cm²
576 cm² + 288 cm² = 864 cm²

16. four million, three hundred and ten thousand, four hundred and twenty-two.

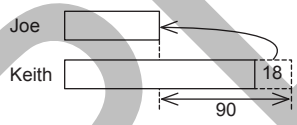
17. 14

$(36 \div 9) \times 4 - 10 + 8 = 4 \times 4 - 10 + 8$
$= 16 - 10 + 8$
$= 6 + 8$
$= 14$

18. 90

$\frac{1}{2} \times 15$ cm × 12 cm = 90 cm²

19. 72



90 – 18 = 72

20. 112

$35 \times 3\frac{1}{5} = \overset{7}{\cancel{35}} \times \frac{16}{\cancel{5}_{1}}$
$= 7 \times 16$
$= 112$

21. $\frac{7}{16}$ m²

$\frac{7}{10} \times \frac{5}{8} = \frac{35}{80} = \frac{7}{16}$ m²

22. 820

400 hundreds + 3 hundreds + 42 ones = 40 342
48 542 – 40 342 = 8 200
= 820 tens

23. $\frac{9}{10}$

$\frac{4}{5} \times \frac{9}{8} = \frac{36}{40} = \frac{9}{10}$

24. 7480

7 480 000 ÷ 1000 = 7480

25. 143

$\frac{1}{2} \times 13$ cm × 22 cm = 143 cm²

26. 7944

4096 – 248 = 3848 (brother)
4096 + 3848 = 7944 (total)

27. $2\frac{7}{12}$

$4\frac{1}{3} - 1\frac{3}{4} = 4\frac{4}{12} - 1\frac{9}{12}$
$= 3\frac{16}{12} - 1\frac{9}{12}$
$= 2\frac{7}{12}$

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