



Rosyth School  
First Semestral Assessment 2007  
Mathematics  
Primary 5

Total  100

Name: \_\_\_\_\_

Class: Pr 5-\_\_\_\_\_ Register No. \_\_\_\_\_

Duration: 2 hr 15 min

Date: 11 May 2007

Parent's Signature: \_\_\_\_\_

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 sections, Section A, B and C.
4. For questions 1 to 15 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).
5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Section A	20	
Section B	30	
Section C	50	
Total	100	

\* This paper consists of 19 pages altogether.

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**Section A**

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.

For each question, four options are given. One of them is the correct answer.

Make your choice (1, 2, 3 or 4).

Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

1. What is the value of the digit 8 in 980 036?

- (1) 80 000
- (2) 8 000
- (3) 800
- (4) 80

There are \_\_\_\_\_ hundreds in 1 million.

- (1) 100
- (2) 1 000
- (3) 10 000
- (4) 100 000

2. Round off 7 545 089 to the nearest thousand.

- (1) 7 540 000
- (2) 7 545 000
- (3) 7 546 000
- (4) 7 550 000

Find the value of  $42 + (139 - 19) \div 6 \times 2$

- (1) 52
- (2) 54
- (3) 82
- (4) 124

5. Find the value of  $6\frac{5}{7} - 1\frac{1}{7}$ .

(1)  $5\frac{4}{7}$

(2)  $5\frac{6}{7}$

(3)  $6\frac{4}{7}$

(4)  $7\frac{6}{7}$

6. Express  $\frac{3}{8}$  day in hours.

(1) 9h

(2) 8h

(3) 3h

(4) 4h

7. How many sixths are there in  $2\frac{1}{6}$ ?

(1) 12

(2) 13

(3) 3

(4) 21

8.  : 6 = 28 : 42

What is the missing number in the box?

(1) 7

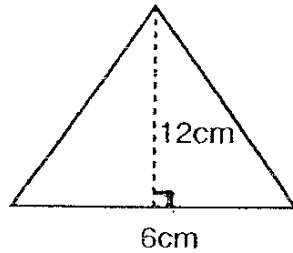
(2) 6

(3) 5

(4) 4

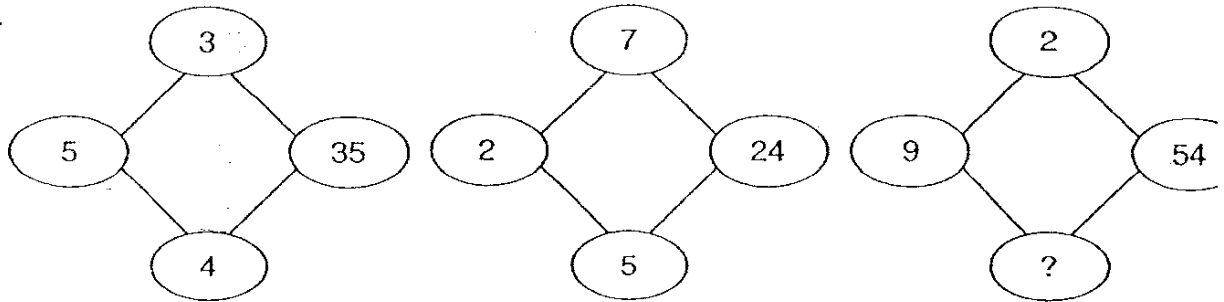
9. There are 30 buttons in a box. 10 buttons are black and the rest are white. What is the ratio of the black buttons to the white buttons?
- (1) 1 : 2
  - (2) 1 : 3
  - (3) 2 : 1
  - (4) 3 : 1

10. What is the area of the triangle below?



- (1)  $9 \text{ cm}^2$
  - (2)  $18 \text{ cm}^2$
  - (3)  $36 \text{ cm}^2$
  - (4)  $72 \text{ cm}^2$
11. The area of a floor covered in square tiles is  $1250 \text{ cm}^2$ . The length of each square tile is 5 cm. How many square tiles are there covering the floor?
- (1) 50
  - (2) 63
  - (3) 125
  - (4) 250
12. If Gary packed 40 apples into each crate, what was the minimum number of crates he needed to pack 4860 apples?
- (1) 121
  - (2) 122
  - (3) 123
  - (4) 124

13.



What is the missing number?

- (1) 5
- (2) 6
- (3) 3
- (4) 4

14. The ratio of Megan's age to Tony's age is 5 : 6. Their total age is 66 years.

How old is Megan?

- (1) 11 years old
- (2) 30 years old
- (3) 36 years old
- (4) 55 years old

15.

A piece of wire  $\frac{4}{5}$  m long is cut into 6 <sup>equal</sup> pieces. Alice used 3 pieces to tie some presents. What fraction of the wire did she use altogether?

- (1)  $\frac{1}{15}$  m
- (2)  $\frac{1}{5}$  m
- (3)  $\frac{2}{15}$  m
- (4)  $\frac{2}{5}$  m



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## BOOKLET B

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This booklet consists of 3 sections.
4. For questions 26 to 50, show all relevant working in the spaces provided.
5. ANSWER ALL THE QUESTIONS.

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**Section B**

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated. (10 marks)

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16. A school's population is 2 904. Round off this number to the nearest thousand.

Ans: \_\_\_\_\_ (1m)

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17. Write the following in numerals:

Five hundred and seven thousand and thirty-three.

Ans: \_\_\_\_\_ (1m)

---

18.  $162 \times 15 = 162 \times 10 + \boxed{\phantom{000}}$   
What is the missing number in the box?

Ans: \_\_\_\_\_ (1m)

---

19. What is the remainder when 2020 is divided by 8?

Ans: \_\_\_\_\_ (1m)

---

20. Express 1 390 m as a fraction of 2 km.

Ans: \_\_\_\_\_ (1m)

---

21. Find the value of  $2\frac{3}{5} + 1\frac{7}{9}$

Ans: \_\_\_\_\_ (1m)

---

22. Ben was told to guess a number. He guessed the number to be 8.  
His guess is  $\frac{1}{4}$  of the actual number. What is the actual number?

Ans: \_\_\_\_\_ (1m)

---

23. 10 girls received  $\frac{1}{4}$  kg of strawberries each.  
What is the total weight of strawberries in kg?  
(Express your answer in its simplest form)

Ans: \_\_\_\_\_ kg (1m)

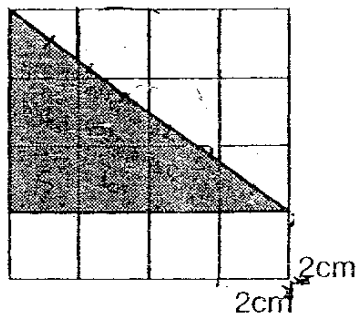
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24. Henry bought 60m of ribbon. He gave away  $\frac{3}{4}$  of the ribbon to Kelly.  
How many metres of the ribbon did he give away?

Ans: \_\_\_\_\_ m (1m)

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25.



What is the area of the shaded triangle?

Ans: \_\_\_\_\_ cm<sup>2</sup> (1m)

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Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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26. Molly has \$356. Jay has \$154. How much money must Molly give to Jay so that each of them will have the same amount of money?

Ans: \$ \_\_\_\_\_ (2m)

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27. A papaya is as heavy as two oranges of equal mass. If the mass of each orange is 160g, find the mass of 3 such papayas.

Ans: \_\_\_\_\_ g (2m)

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28.  $\frac{1}{2}$  kg of mutton costs \$2. 1kg of prawns costs \$3.50.

Mother bought 3kg of prawns and 3 kg of mutton.  
How much did she spend altogether?

Ans: \$ \_\_\_\_\_ (2m)

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29. When Sarah opens a book, the sum of the facing page numbers is 273.  
What is the smaller page number?

Ans: \_\_\_\_\_(2m)

---

30. Roy and Lin had the same amount of money. When he spent four times as much as Lin, he had \$22 left while she had \$49 left. How much did Lin have at first?

Ans: \$ \_\_\_\_\_(2m)

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31. Bala gave  $\frac{2}{5}$  of his stamps to his brother and  $\frac{1}{3}$  of the remainder to his sister.  
He had 10 stamps left. How many stamps did he have at first?

Ans: \_\_\_\_\_(2m)

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32. The area of a rectangle is  $72 \text{ cm}^2$ . Its length is 18 cm.  
What is the ratio of the length to its breadth?  
(Express your answer in its simplest form.)

Ans: \_\_\_\_\_(2m)

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33. A rabbit weighs  $\frac{7}{8}$  kg. A hamster is  $\frac{1}{2}$  of the mass of the rabbit.

What is the total mass of the two animals?

(Express your answer as a mixed number in its simplest form.)

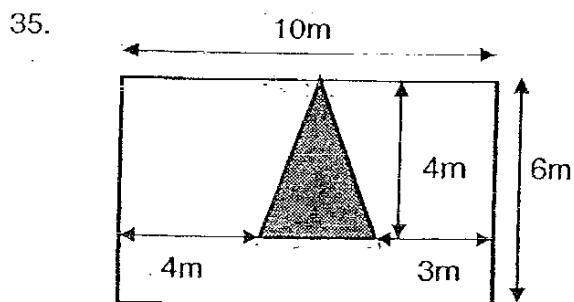
Ans: \_\_\_\_\_ kg (2m)

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34. The number of chickens and ducks on a farm is in the ratio of 4 : 7.  
There are 21 more ducks than chickens. How many chickens and ducks are there altogether?

Ans: \_\_\_\_\_ (2m)

---



The figure above is not drawn to scale.  
Find the area of the **unshaded** part in the figure.

Ans: \_\_\_\_\_ m<sup>2</sup> (2m)

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**Section C (50 marks)**

For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.

The marks for each question or part-question is shown in brackets ( ) at the end of each question.

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36.  $\frac{3}{5}$  of pupils in a school wear watches.  $\frac{1}{4}$  of those who wear watches are girls. If there are 150 girls who wear watches, how many children in school **do not** wear watches?

Ans : \_\_\_\_\_ (3m)

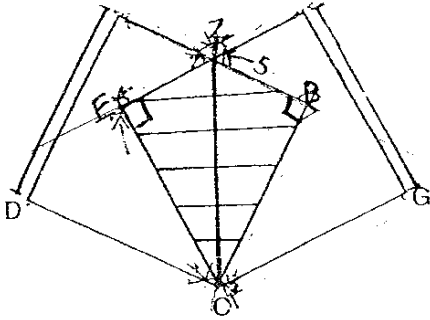
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37. Jill had 150 stamps. She kept half of them and shared the rest between Grace and Ahmad in the ratio 2 : 3. How many stamps did Ahmad receive?

Ans : \_\_\_\_\_ (3m)

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38. The figure below (not drawn to scale) consists of two overlapping squares ABCD and EFGC each of side 10 cm.  $AZ = ZF = 5$  cm. Find the area of the unshaded part.



Ans : \_\_\_\_\_ (3m)

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39. Minah bought 5 boxes of biscuits and 4 boxes of chocolates for \$46. If a box of chocolates cost \$2.50 more than a box of biscuits, how much would one box of chocolates cost?

Ans : \_\_\_\_\_ (3m)

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40. Ian, Jean and Ken shared some stickers. Ian received  $\frac{1}{5}$  of the stickers. Jean and Ken shared the remaining number of stickers in the ratio 3 : 1. If Jean received 90 stickers more than Ken, how many stickers were there?

Ans : \_\_\_\_\_ (3m)

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41. A pair of jeans cost 3 times as much as a skirt. Geraldine spent  $\frac{3}{5}$  of her money on some skirts and half of her remaining money on a pair of jeans. How many skirts did she buy?

Ans : \_\_\_\_\_ (3m)

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42. Ji Chang could buy 8 plums and 5 mangoes with \$8.00. He could buy 16 such plums with the same amount of money. If he decides to buy mangoes only, how many mangoes can he buy with \$100?

Ans : \_\_\_\_\_ (4 m)

43. Box A and Box B contained only red and black pens. In Box A, the ratio of the number of red pens to the number of black pens was 3 : 2. In Box B, the ratio of the number of red pens to the number of black pens was 1 : 2. There were 3 times as many pens in Box A as in Box B. If there were 135 pens in Box A, what was the ratio of the number of red pens in Box A to the number of black pens in Box B? Give your answer in its simplest form.

Ans : \_\_\_\_\_ (4 m)

44. Hamish won ~~\$30 000~~<sup>\$2400</sup> in a contest. He kept  $\frac{1}{4}$  of it and gave the remainder to his wife, sister and brother. His wife received  $\frac{2}{3}$  of the money, his sister received  $\frac{1}{4}$  of it and his brother received the rest.
- a) How much did his wife receive?
- b) What is the ratio of his wife's share to his brother's share?

Ans : (a) \_\_\_\_\_ (2 m)

(b) \_\_\_\_\_ (3 m)

45. 40 pupils shared a certain number of pencils. Each girl received 6 pencils and each boy received 7 pencils.  
If the boys received 72 more pencils than the girls,
- a) how many boys were there?
  - b) how many girls were there?

Ans : (a) \_\_\_\_\_ (3 m)

(b) \_\_\_\_\_ (2 m)

46. Mrs Siva has some stamps. If she gives 7 stamps to each of her pupils, she will have 5 stamps left. If she gives 13 stamps to each of her pupils, she ~~will~~ need 61 more stamps ~~more~~.
- a) How many pupils does she have?
- b) How many stamps does she have?

Ans : (a) \_\_\_\_\_ (3 m)

(b) \_\_\_\_\_ (2 m)

47. There are some coins in a piggy bank.  $\frac{1}{4}$  of the total number of coins is 20 cent~~x~~ coins,  $\frac{1}{2}$  of the remainder is 50 cent~~x~~ coins and the rest is 10 cent~~x~~ coins. The total value of the coins is \$11. How many coins are there in the piggybank?

Ans : \_\_\_\_\_ (4 m)

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48. Nelson and Wei Ying had some Pokemon cards. Nelson gave  $\frac{1}{3}$  of his cards to Wei Ying. In return, Wei Ying gave  $\frac{1}{4}$  of the cards she had to Nelson. Later, Nelson gave  $\frac{1}{5}$  of the cards to Wei Ying. In the end, Nelson had 380 cards and Wei Ying had 662 cards. How many cards did Nelson have at first?

Ans : \_\_\_\_\_ (5 m)

***End of Paper  
Please check your work carefully***

# Rosyth Primary School

## Primary 5 Maths SA1 Exam (2007)

### Answer Keys

Q1	Q2	Q3	Q4	Q5
1	3	2	1	1
11	Q7	Q8	Q9	Q10
1	2	4	1	3
Q11	Q12	Q13	Q14	Q15
1	2	4	2	4

16. 3000

17. 507033

18. 810

19. 4

20.  $\frac{139}{200}$

21.  $\frac{417}{45}$

22. 32

23.  $2\frac{1}{2}$

24. 45m

25. 24cm<sup>2</sup>

26. \$101

27. 960

28. \$22.50

29. 136

30. \$58

31. 25 stamps

32. 9 : 2

33.  $1\frac{5}{16}$

34. 77

35. 54cm<sup>2</sup>

36. 400 children

37. 45 stamps

38. 100cm<sup>2</sup>

39. \$6.50

40. 225 stickers

41. 9 skirts

42. 125 mangoes

43. 27 : 10

44a.  $2400 \div 2 = 1200$   
His wife received \$1200

44b.  $1200 \div 8 = 150$   
 $1200 : 150$   
 $120 : 15$   
 $24 : 3$   
 $8 : 1$

The ratio of his wife's share to his brother's share is 8 : 1

45a. There are 24 boys

45b. there are 16 girls

46a.  $13 - 7 = 6$   
 $61 + 5 = 66$   
 $66 \div 6 = 11$   
She has 11 pupils

46b.  $7 \times 11 = 77$   
 $77 + 5 = 82$   
She has 82 stamps.

47.  $15 + 15 = 30$   
 $30 + 10 = 40$   
There are 40 coins in the piggy banks.

48.  $380 \div 4 = 95 \left(\frac{1}{5}\right)$   
 $662 - 95 = 567$  (WY)  
 $380 + 95 = 475$  (N)  
 $567 \div 3 = 189 \left(\frac{1}{4}\right)$   
 $475 - 189 = 286$  (N)  
 $567 + 286 = 853$  (WY)  
 $286 \div 2 = 143 \left(\frac{1}{3}\right)$   
 $853 - 143 = 710$  (WY)  
 $286 + 143 = 429$  cards