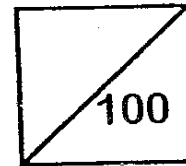# Rosyth School
Second Semestral Assessment 2006
Mathematics
Primary 3

Total | /100

Name: _____

Class: Pr 3-_____   Register No. _____   Duration: 1h 45 min

Date: 31 October 2006   Parent's Signature: _____

<u>Instructions to Pupils:</u>
1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 parts, Sections A, B and C.
4. For questions 1 to 20 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).

	Maximum	Marks Obtained
Section A	40	
Section B	40	
Section C	20	
Total	100	

* This paper consists of __18__ pages altogether.

This paper is not to be reproduced in part or whole without the permission of the Principal.

2 /

Section A (40 marks)

For each question, 4 options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval in the OAS provided. Questions 1 to 20 carry 2 marks each.

1.   In 6 543, the digit **6** is in the _____ place.

    (1) ones

    (2) tens

    (3) hundreds

    (4) thousands

2.   7 groups of 8 is the same as _____.

    (1) $7 + 7 + 7 + 7 + 7 + 7 + 7$

    (2) $7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7$

    (3) $8 + 8 + 8 + 8 + 8 + 8 + 8$

    (4) $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$

3. $5\,579 + 1\,034 = $ _____.

    (1) 4 045

    (2) 4 545

    (3) 6 503

    (4) 6 613

4.   The missing number in the pattern is _____.

    5, 8, 16, 19, ____ , 41, 82, 85

    (1) 22

    (2) 27

    (3) 38

    (4) 39

5. What is the product of 309 and 8 ?

    (1) 2 402
    (2) 2 417
    (3) 2 472
    (4) 2 481

6. Joel has 19 marbles. Ryan has 3 times as many marbles as Joel.
    How many marbles does Ryan have ?

    (1) 22
    (2) 57
    (3) 59
    (4) 76

7. 865 pencils were packed equally into 4 bags.
    How many pencils are left over ?

    (1) 1
    (2) 2
    (3) 3
    (4) 0

8. A mango costs six times as much as an apple.
    If three similar apples cost 90 cents, what is the cost of a mango ?

    (1) $1.50
    (2) $1.80
    (3) $5.40
    (4) $6.30

2

9. David collected 179 empty cans. Reuben collected three times as many empty cans as David. How many more empty cans did Reuben collect than David ?

(1) 348

(2) 358

(3) 517

(4) 537

10. 7 hours and 45 minutes = _____ minutes

(1) 45

(2) 420

(3) 465

(4) 745

11. The mass of Box A is 1 089 g. The mass of Box B is 3 705 g. What is the total mass of the two boxes ?

(1) 4 784 g

(2) 4 794 g

(3) 4 895 g

(4) 4 795 g

12. The capacity of a fish tank is 10 litres. If it is only half-filled with water, what is the volume of the water in the fish tank ?

(1) 250 ml

(2) 500 ml

(3) 2 500 ml

(4) 5 000 ml

13. Jacqueline is 143 cm tall. Timothy is 17 cm taller.
   What is Timothy's height ?

   (1) 126 cm

   (2) 160 cm

   (3) 177 cm

   (4) 303 cm

14. Rachel went to bed at 10.30 p.m. and woke up three hours later to go to the toilet. At what time did she wake up ?

   (1) 1.30 a.m.

   (2) 1.30 p.m.

   (3) 7.30 a.m.

   (4) 7.30 p.m.

15. 1 045 cents = $ _____

   (1) $1.45

   (2) $10.45

   (3) $14.50

   (4) $104.50

16. 3 oranges cost $0.90. Bernice had ten dollars.
   What is the most number of oranges she can buy with her money ?

   (1) 9

   (2) 27

   (3) 30

   (4) 33

4

17. What fraction of the figure is shaded ?
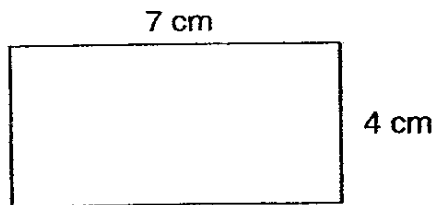

(1) $\dfrac{1}{4}$

(2) $\dfrac{1}{3}$

(3) $\dfrac{2}{3}$

(4) $\dfrac{3}{4}$

18.

7 cm

4 cm
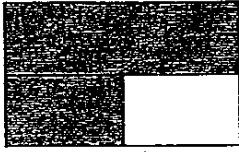
The length of a rectangle is 7 cm. Its breadth is 4 cm. Find its area.
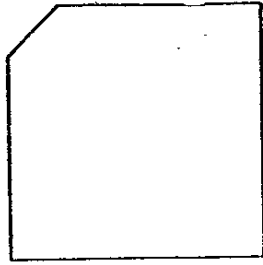
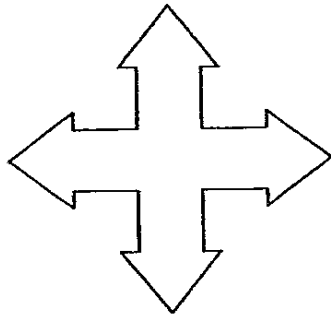(1) 11 cm^2

(2) 21 cm^2

(3) 22 cm^2

(4) 28 cm^2

5

19. How many right angles are there in the following shape ?

    (1) 7
    (2) 5
    (3) 3
    (4) 10

20. How many angles are smaller than a right angle in the following shape ?

    (1) 8
    (2) 12
    (3) 16
    (4) 20

Section B (40 marks)

For each question, show your working clearly in the space below each question and write your answers in the spaces provided. Give your answers in the units stated. Questions 21 to 40 carry 2 marks each.

21. The digit 5 in 15 230 stands for _____.

22. The product of 456 and 3 is _____.

23. Form the smallest number using the digits 1 , 0 , 3 and 5.

24. Ahmad has 350 stamps. Peter has twice as many as Ahmad.

    How many stamps do they have altogether ?

25. Mr. Tan has 165 pens. He distributed them to his pupils. Each pupil received 4 pens. How many pupils does he have if he had 17 pens after distributing to his pupils ?

```
┌─────────────────────┐
│                     │
│                     │
└─────────────────────┘
```

26. How many odd numbers are there between 50 and 62 ?

```
┌─────────────────────┐
│                     │
│                     │
└─────────────────────┘
```

27. A box contains 56 apples. Mrs. Muthu bought 4 such boxes. She found that 23 apples she bought were rotten. How many apples did she have left ?

```
┌─────────────────────┐
│                     │
│                     │
└─────────────────────┘
```

28. Karen paid a total of $65 for a shirt and a tie. The shirt cost 4 times as much as a tie. How much did she pay for the shirt ?

```
┌─────────────────────┐
│                     │
│ $                   │
└─────────────────────┘
```
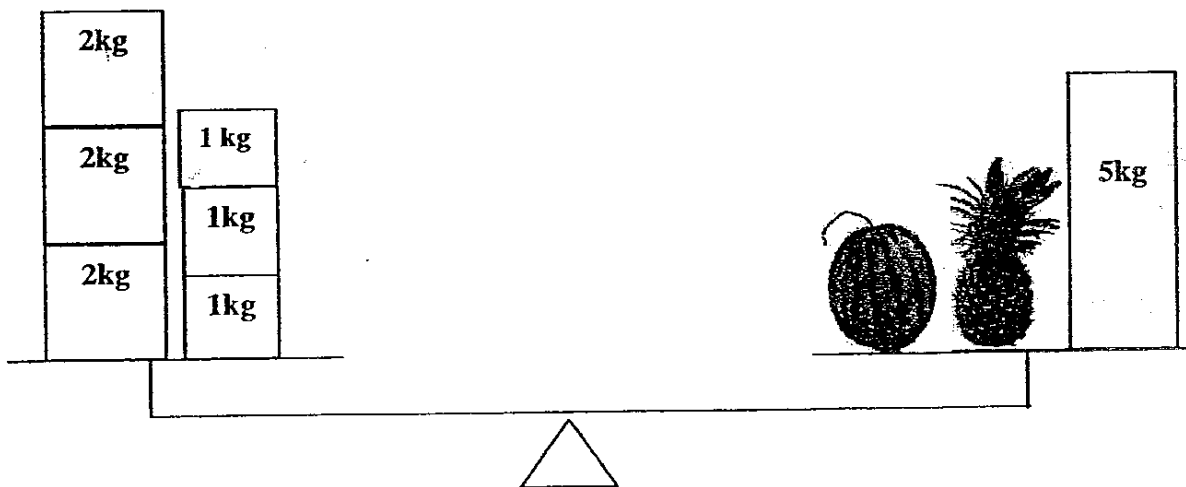
29. 2 pieces of watermelons and 3 pears cost $2.00.

4 pieces of watermelons and 7 pears cost $4.30.

Find the cost of 1 pear.

$

30. Express 4m 8cm in centimetres.

cm

31. Look at the diagram carefully. If the mass of the watermelon is 2 kg more than the pineapple, what is the mass of the watermelon ?

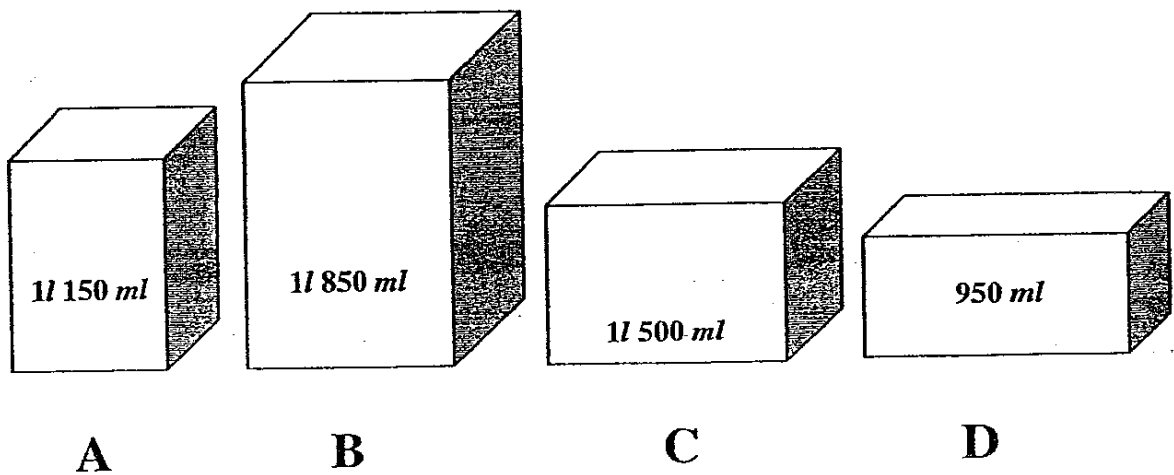| |
|---|
| kg |

30

32. Samuel started writing his composition at 4.30 pm. He completed it at 5.55 pm. How long did he take to write his composition ?

hr	min

33. Study the 4 tanks below carefully. Which 2 tanks will have a total capacity of more than 3 litres ?

1l 150 ml

1l 850 ml

1l 500 ml

950 ml

A   **B**   **C**   **D**

	and

34. Joycelyn bought 6 m of ribbon. She used 85 cm of it to wrap a gift. She cut the remaining ribbon into 5 equal strips. What was the length of each strip ? Give your answer in metres and centimetres.

m	cm

10

Study the pictures below carefully and answer questions 35 and 36.
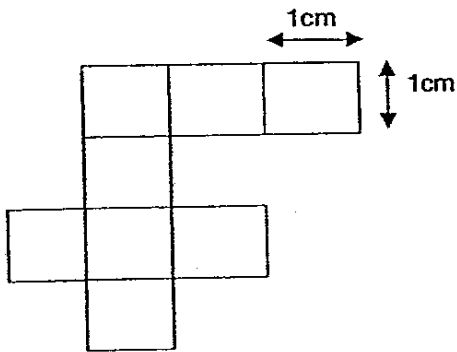
Lamp $39.90	Scissor $2.50	T-shirt $14.95
Wallet $22.45	Computer $1 099	

35. How much did Ahmad have to pay if he wanted to buy a T-shirt and a table lamp ?

$ _____

36. Kelly had 3 fifty-dollar notes at first. She bought a wallet. How much did she have left ?

$ _____

37. Express the fraction $\frac{2}{6}$ in its simplest form.

```
┌─────────────────────────┐
│                         │
│                         │
└─────────────────────────┘
```

38. What is the area of the figure below ?
    (The figure is not drawn to scale.)


```
┌──────────────────────────────┐
│                              │
│                         cm²  │
│                              │
└──────────────────────────────┘
```

Study the graph below and answer questions 39 and 40.

This graph shows the amount of meat a butcher sold in a week.
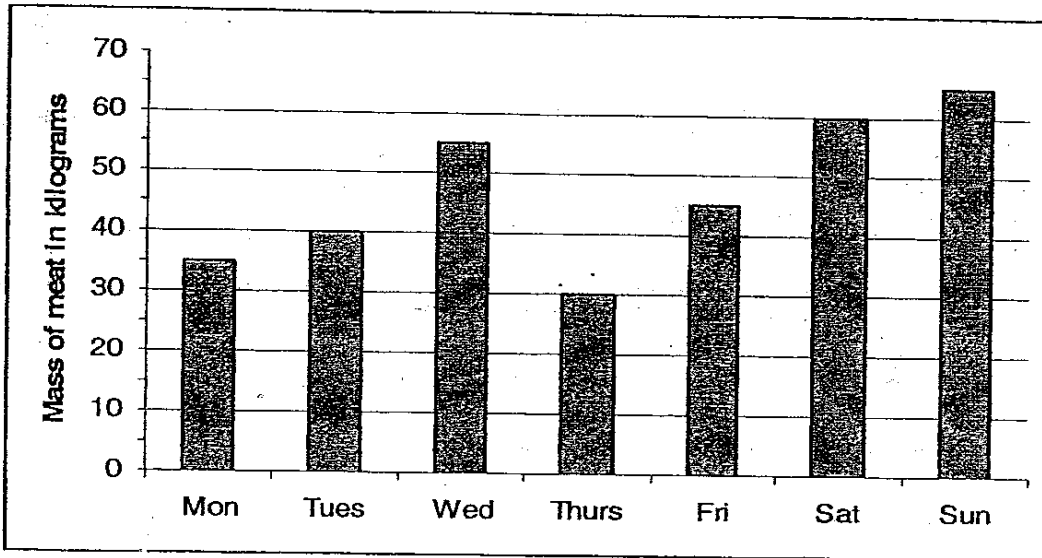
39. On which day did the butcher sell the least amount of meat ?

40. How much meat did the butcher sell on Saturday and Sunday ?

kg

For questions 41 to 45, show your working clearly in the space below each question and write your answers in the spaces provided. The mark allocated for each question is given in brackets.

---

41.   The sum of 3 numbers is 200. The first number is 27 more than the second number. The third number is 29 more than the first number. What is the second number ?

Answer : _____ (4 marks)

14

ᐧ�

42. A violin costs three times as much as a guitar.

The guitar costs five times as much as a harmonica.

If the harmonica cost $24,

(a) How much does the guitar cost ?

(b) What is the difference in price between the violin and the guitar ?

Answer : (a) _____ (2 marks)

(b) _____ (2 marks)

36

43. Samantha has 76 red beads. There are three times as many blue beads as red beads. There are twice as many red beads as green beads.

She puts the beads into 7 boxes and had 6 beads left.

(a) How many blue beads are there ?

(b) How many beads are there in each box ?

Answer : (a) _____ (2 marks)

(b) _____ (2 marks)

37

42. Aaron walked a total distance of 12 km 12 m in 3 days.

He walked 3 km 612 m on the first day and 2 km 402 m on the second day.

(a) How long did he walk on the third day ?

(b) How much further did he walk on the third day than on the first day ?

Answer : (a) _____ (2 marks)

(b) _____ (2 marks)

38

5

48. A jug contains 6ℓ 500 mℓ mixture of rose syrup and water.

When 1 ℓ 500mℓ more rose syrup is poured into the jug, the amount of

rose syrup and water in the jug will be equal.

(a) How much rose syrup is in the jug now ?

(b) How much rose syrup was in the jug at first ?

Answer :   (a) _____ (2 marks)

(b) _____ (2 marks)

End of paper

Please check your work carefully.

18

39

Answer Sheets
Rosyth Pri 3 SA2 / 2006 Maths

1)	4	2)	3	3)	4	4)	3	5)	3
6)	2	7)	1	8)	3	9)	2	10)	3
11)	2	12)	4	13)	2	14)	1	15)	2
16)	4	17)	4	18)	4	19)	3	20)	2

21. $1\underline{5}\,230 = 5000$

22. $456 \times 3 = 1368$

23. 1035

24. Ahmad = 350 stamps
Peter = $350 \times 2 = 700$ stamps
$700 + 350 = \underline{\textbf{1050 stamps}}$ altogether.

25. $165 - 17 = 148$
$148 \div 4 = \underline{\textbf{37 pupils}}$

26. $\underline{51}$, 52, $\underline{53}$, 54, $\underline{55}$, 56, $\underline{57}$, 58, $\underline{59}$, 60, $\underline{61}$, 62
There are $\underline{6}$ odd numbers

27. $56 \times 4 = 224$ apples
$224 - 23 = \underline{\textbf{201 apples}}$ left

28. Tie = 1 units
Shirt = 4 units
$\$65 \div 5 = \$13$
$4 - 1 = 3$
$= \$13 \times 3$
$= \underline{\textbf{\$52.00}}$

29. 2 watermelons + 3 pears = $2.00
4 watermelons + 7 pears = $4.30
4 watermelons + 6 pears = $4.00
$\$(4.30 - 4.00) = \underline{\textbf{\$0.30¢}}$

30. 4m 8cm $= (4 \times 100) + 8$
$= 408$cm

31. $5kg - 2kg = 3kg$ (watermelons)

32. 5.55pm = 1755hours
4.30pm = 1630hours
$(1755 - 1630)$ hours = 125hours
= 1hr 25 mins

33. Tank B + Tank C
1ℓ 850mℓ + 1ℓ 500mℓ = 3ℓ 350mℓ

34. 6m = 600cm
600cm − 85cm = 515cm
515cm ÷ 5 = 103cm
= 1m 3cm

35. T shirt   = $14.95
    Table lamp   = $39.90
    $(14.95 + 39.90) = $54.85

36. 3 x $50.00 = $150.00
    $150 − $22.45 = $127.55

37. $\frac{2}{6} = \frac{1}{3}$

38. 8cm²

39. On Thursday

40. Saturday = 60
    Sunday   = 65
    65 + 60   = 125kg

41. $200 - 27 - 27 - 29 = 117$
    $117 \div 3 = 39$

    The second number is **39.**

42. Harmonica cost = $24.00
    Guitar   = $24.00 x 5
                   = $120.00
    Violin   = $120 x 3
                   = $360.00

    (a) The guitar cost $120.00

    (b) $(360 − 120.00) = $240.00
         The different is **$240.00**

43a. 76 x 3 = 228 beads

    There are **228 blue beads**.

43b. 76 ÷ 2 = 38

    (76 + 228 + 38) = 342
    342 − 6 = 336
    336 ÷ 7 = 48

    There are 48 beads in each box

44a. 1ˢᵗ Day = 3km 612m (3612m)

$\quad$ 2ⁿᵈ Day = 2km 402m (2402m)

$\quad$ 3ʳᵈ Day = (12012 – 3612 – 2402)m

$\qquad\qquad$ = 5998m

He walked **5998m (5km 998m)** on the 3ʳᵈ day.

44b. (5998 – 3612)m = 2386m

$\qquad\qquad$ = 2km 386m

He walked **2km 386m** further

45a. 6ℓ 500mℓ = 6500mℓ

$\quad$ 1ℓ500mℓ = 1500mℓ

$\quad$ (1500 + 6500)mℓ = 8000 mℓ

$\quad$ 8000 mℓ ÷ 2 = 4000mℓ

$\quad$ 4000mℓ – 1500mℓ = 2500mℓ

2500mℓ of rose syrup was in the jug at first.