Rosyth School
Second Semestral Assessment 2013
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 -_____

Date: 24th October 2013 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet A)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are **not** allowed to use a calculator
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

* This booklet consists of 6 pages (including this cover page)

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

(20 marks)

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1. What is the remainder when 8 650 is divided by 20?

   (1) 1
   (2) 5
   (3) 10
   (4) 20

2. Which of the numbers below has the digit '5' in both the ten thousands and hundreds place?

   (1) 405 985
   (2) 450 589
   (3) 504 958
   (4) 895 540

3. Which of the following is equivalent to 4 : 9?

   (1) 8 : 9
   (2) 4 : 18
   (3) 16 : 36
   (4) 20 : 27

4. Which of the following fractions has the largest value?

(1) $\frac{3}{4}$

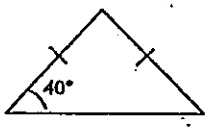
(2) $\frac{4}{9}$

(3) $\frac{5}{6}$

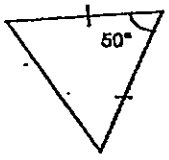
(4) $\frac{7}{12}$

5. Which of the following triangles, not drawn to scale, is an equilateral triangle?

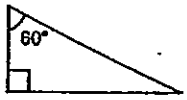
(1)



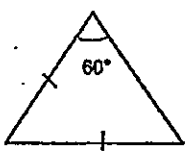
(2)



(3)



(4)



6. At a class activity, 27 pupils shared 18 candles. What is the ratio of the number of candles to the number of pupils?

(1) 1 : 3

(2) 2 : 3

(3) 3 : 1

(4) 3 : 2

7. $24 \div 1\,000 = \square$. What is the value in the box?

(1) 0.0024

(2) 0.024

(3) 0.24

(4) 2.4

8. Express 0.028 as a percentage.

(1) 0.028 %

(2) 0.28 %

(3) 2.8 %

(4) 28 %

9. The average of two numbers is 35. If one number is 6 times the other number, find the smaller number.

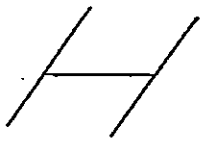
(1) 5

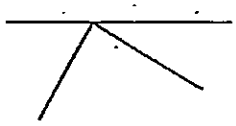
(2) 10

(3) 30

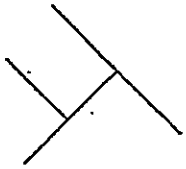
(4) 60

10. Which one of the following figures contains both perpendicular lines and parallel lines?

(1) 

(2) 

(3) 

(4) 

11. 7 thousands + 1 hundred + 5 tenths + 3 hundredths is ☐
What is the missing value in the box?

(1) 7150.3
(2) 7150.03
(3) 7100.53
(4) 7100.053

12. 7 similar books cost $12.95. How much do 4 books cost?

(1) $1.85
(2) $5.55
(3) $7.20
(4) $7.40

13. Amar has 270 marbles, $\frac{3}{5}$ of the marbles are red, $\frac{5}{6}$ of the remaining marbles are blue and the rest are green. How many blue marbles does Amar have?

(1) 18
(2) 27
(3) 90
(4) 135

14. A blouse costs $\frac{2}{7}$ that of a dress. The dress costs $140 more than the blouse. What is the cost of the dress?

(1) $40
(2) $56
(3) $196
(4) $490

15. Study the pattern below.

A B C D A B C D A B C .... ?

1st 239th

What will be the 239th letter?

(1) A
(2) B
(3) C
(4) D

Rosyth School
Second Semestral Assessment 2013
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 · _____

Date: 24th October 2013 Parent's Signature: _____

Total Time for Booklets A and B : 50 minutes

PAPER 1
(Booklet B)

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are **not** allowed to use a calculator
4. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 Booklet B)	20	

* This booklet consists of **7 pages** (including this cover page)

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. Round off the sum of 980 and 2 409 to the nearest hundred.

Ans: _____

17. Find the value of $96 - 48 \div 6 \times 2 + 21$.

Ans: _____

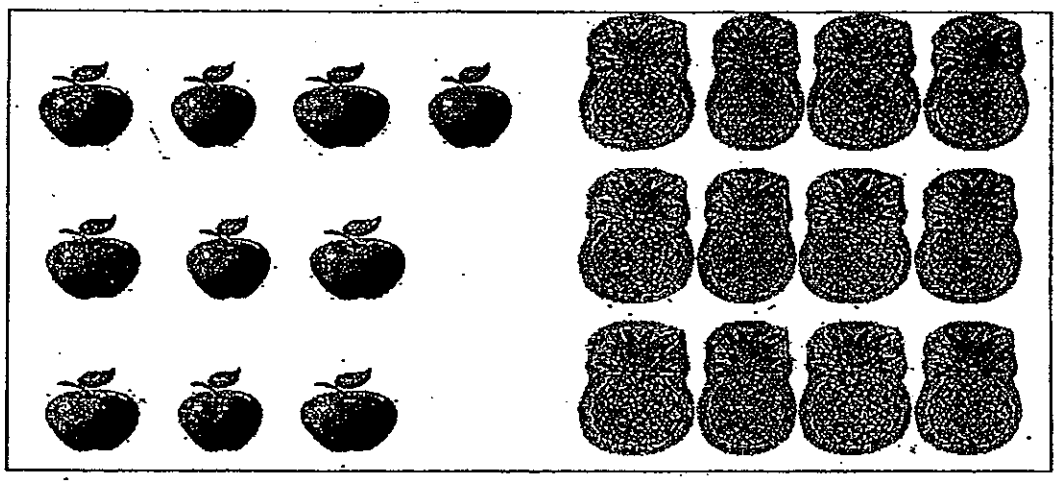
18. $4\frac{6}{7} = \square \times \frac{1}{7}$. What is the missing number in the box?

Ans: _____

19. Simplify the ratio 32 : 16 : 28.

Ans: _____

20. Find the ratio of the number of pineapples to the number of apples. Express your answer in its simplest form.



Ans: _____

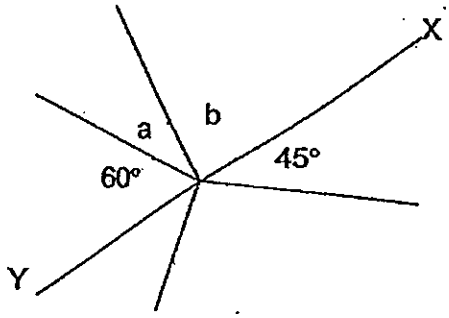
21. Find the value of 38.4 ÷ 30.

Ans: _____

22. How many days are there in 20% of 10 weeks?

Ans: _____ days

23. In the figure below, not drawn to scale, XY is a straight line and $\angle a$ is $\angle b$. Find $\angle a$.



Ans: _____°

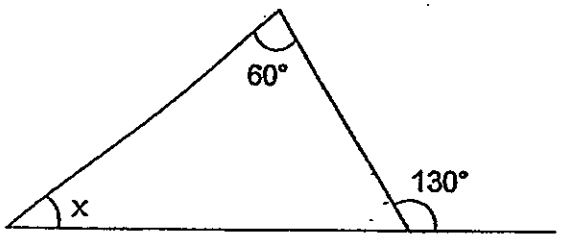
24. The table below shows the amount of donations Tom collected over four days.

Monday	$18
Tuesday	$8
Wednesday	$0
Thursday	$18

What was the average amount of money Tom collected?

Ans: $_____

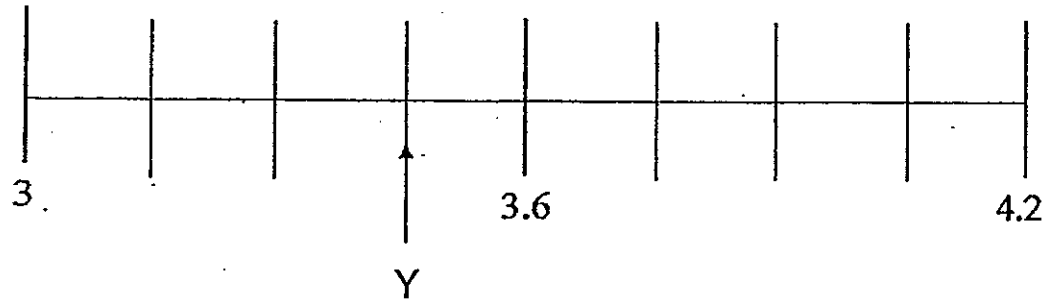
25. In the figure (not drawn to scale), find the value of $\angle x$.



Ans: _____°

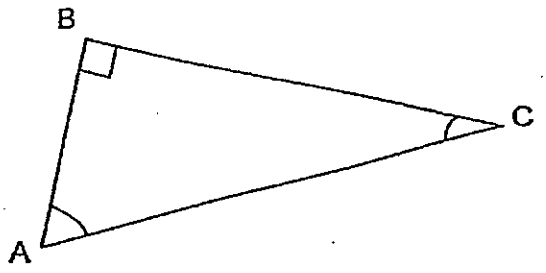
Questions **26** to **30** carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26. What is the value of Y?



Ans: _____

27. In the figure below, not drawn to scale, ∠BAC is twice ∠BCA. Find ∠BAC.



Ans: _____ °

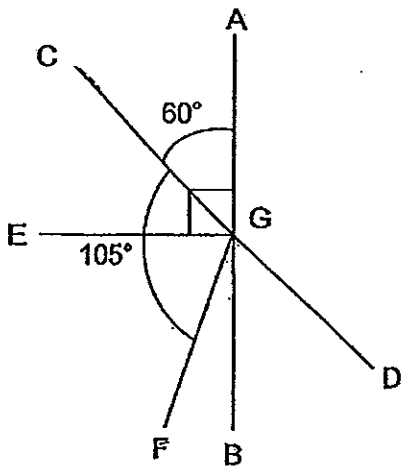
28. The usual price of a book was $60. During a sale, James bought 2 such books at a discount of 15%. How much did he pay altogether?

Ans: $_____

29. The difference between the length and the breadth of a rectangle is 16 cm. The ratio of the length to the breadth is 9 : 7. What is the breadth of the rectangle?

Ans: _____cm

30. In the figure below, not drawn to scale, AB and CD are straight lines and $\angle AGC = 60°$ and $\angle CGF = 105°$. Find $\angle FGE$.



Ans: _____ °

End of Paper

Rosyth School
Second Semestral Assessment 2013
Primary 5 Mathematics

Name:_____ Register No. _____

Class: Pr 5 - _____

Date: 24th October 2013 Parent's Signature: _____

Time: 1 h 40 min

PAPER 2

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 18	50	

Section	Maximum Mark	Marks Obtained
Paper 1	40	
Paper 2	60	
Total	100	

*** This booklet consists of 15 pages (including this cover page)**

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10marks)

Do not w in this sp

1. Jack's parents are of the same age. Jack is 29 years younger than his mother. The total age of Jack and his parents is 100 years. How old is Jack?

Ans: _____years old

2. In the space below, drawn a triangle ABC in which AB = 5 cm and $\angle BAC = 75°$. The line AC has been drawn for you.

A C

3. Karl and his brother had some savings in the ratio 5 : 8. Karl spent $\frac{3}{5}$ of his savings and his brother spent $\frac{3}{4}$ of his savings. What is the ratio of Karl's spending to his brother's spending? Give your answer in the simplest form.

Do not
in this

Ans: _____

4. Ken bought an equal number of shirts and belts for $363.20. Each belt cost $39.90 and each shirt cost $11 more than each belt. How many belts did he buy?

Ans: _____

5. The ratio of the number of boys to the number of girls in a canteen was 2 : 3 at first. After 49 boys left the canteen, the ratio became 1 : 5. How many more girls than boys remained in the canteen in the end?

Do not wr
in this spa

Ans: _____

Questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(50 marks)

Do no in this

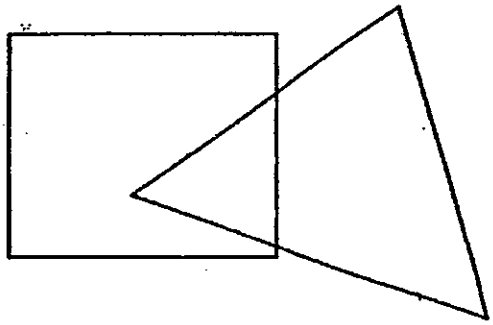
6. The average marks of Alan and Bella were 77. The average marks of Bella and Cathy were 84. The average marks of Alan and Cathy were 80, what were Alan's marks?

Ans: _____ [3m]

7. Roy had a piece of rope 40.8 m long. He cut 6 pieces each measuring 3.6 m long from the original piece. The remainder was used to form a rectangle of length 5.4 m. Find the area of the rectangle. (Round off to one decimal place)

Ans: _____ [3m]

8. The figure below, not drawn to scale, is made up of a square and a triangle which overlap each other as shown below. $\frac{1}{4}$ of the square and $\frac{2}{7}$ of the triangle are shaded. Find the area of the unshaded part if the area of the shaded part is 24 cm².



Ans:_____ [3m]

9. James had 780 stamps in his collection. 40% of them were from Singapore. 25% of the remainder was from Malaysia and the rest were from China. How many stamps were from China?

Ans:_____ [3m]

Do not v
in this sp

10. The usual price of an iPad was $850. During a sale, Ahmad bought it at a discount of 20%.

(a) What was the discounted price of the iPad?

(b) How much did the iPad cost with GST of 7%?

Do not
in this s

Ans: (a)_____[1m]

(b)_____[2m]

11. In a quiz, 5 marks were awarded for each correct answer and 1 mark was deducted for each wrong answer. Ravi attempted all questions and scored 52 marks. With every 3 questions answered correctly, he answered 2 questions wrongly. How many questions were there in the quiz?

Do not wri in this spa

Ans: _____ [3m]

12. Minah bought some books at an average price of $8 each at a first store. She bought another 2 books for $14 each at another store. The average price of all the books bought became $10.

(a) How many books did she buy at the first store?

(b) How many books did she buy altogether?

Do not
in this s

Ans: a)_____ [3m]

b)_____ [1m]

13. 60% of the pupils who attended the first day of a school holiday camp were boys. On the second day, the percentage of boys who attended increased by 20% but the percentage of girls who attended decreased by 10%. As a result, there were 24 more pupils on the second day than the first day. How many pupils attended the camp on the second day?

Ans:_____ [4m]

Do not v
in this s

14. Tina had some stickers. She gave away 40% of her stickers. Leon did not have any stickers and took 70% of the stickers that Tina gave away. In the end, Leon had 64 stickers less than Tina. How many more stickers must Leon buy so that he would have the same number of stickers given away by Tina?

Do not v
in this s

Ans:_____[4m]

15. Amy had a collection of beads. She gave $\frac{2}{5}$ of her beads to her sister and shared the rest among her friends; Nancy, Mary and Siti in the ratio of 4 : 5 : 6. Her sister had 1800 more than Nancy.

(a) How many beads were given to her sister?

(b) How many beads did Amy have at first?

Do not wr
in this sp

Ans: (a) _____ [3m]

(b) _____ [2m]

16. Zoe used $\frac{1}{3}$ of her money to buy a dress and $\frac{1}{4}$ of the remaining money to buy some magazines. After that, she used $\frac{2}{5}$ of the rest of the money to buy a present. She had $54 left.

(a) How much did she spend on the present?

(b) How much did she spend on the magazines?

Ans: (a) _____ [3m]

(b) _____ [2m]

Do not v
in this s

17. Mrs Wong had 840 more red scarves than blue scarves in her shop. After selling $\frac{1}{2}$ of the red scarves and $\frac{3}{5}$ of the blue scarves, 600 red and blue scarves were left. How many red scarves did she have at first?

Do not writ
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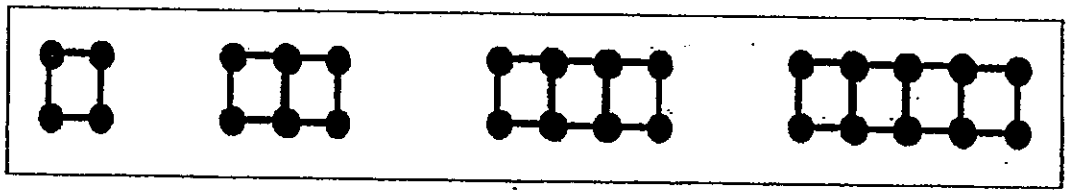
Ans: _____ [5m]

18. The patterns below are formed using dots and squares.



Pattern 1 Pattern 2 Pattern 3 Pattern 4

Using the patterns above, complete the table below.

Pattern	No. of Squares	No. of Dots	Total No. of Squares and Dots
1	1	4	5
2	2	6	8
3	3	8	11
4	4	10	14
7	(a)_____(1m)	(b)_____(1m)	(c)_____(1m)

d) Find the total number of squares and dots for Pattern 100.

Ans: (d) _____[2m]

End of Paper

Answer Key

EXAM PAPER 2013
SCHOOL : ROSYTH
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	2	3	3	4	2	2	3	2	4	3	4	3	3	3

16)3400 **17)101** **18)34** **19)8:4:7** **20)6:5**

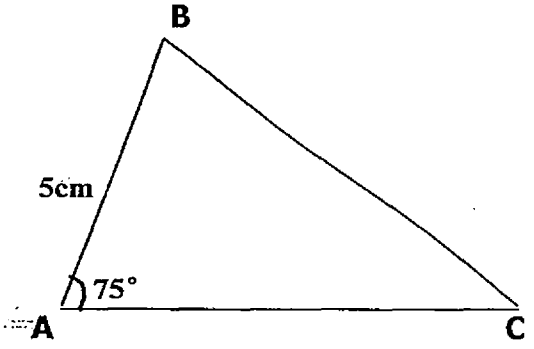
21)1.28 **22)14 days** **23)30°** **24)$11** **25)70°**

26)3.45 **27)60°** **28)$102** **29)56cm** **30)75°**

Paper 2

1) $29 \times 2 = 58$
$100 - 58 = 42$
$42 \div 3 = 14$ years old

2)



3)3/5 x 5 = 3/1 = 3
¾ x 8 = 6
3 : 6
1 : 2

4)S→39.90 + 11 = $50.90
50.90 + 39.90 = 90.80
363.20÷90.80 = 4

5)10 – 3 = 7u
7u→49
1u→49÷7 = 7
15 – 3 = 12u
12u→7 x 12 = 84

6)168 x 2 = 336
482 – 336 = 146
146÷2 = 73

7)3.6 x 6 = 21.6
40.8 – 21.6 = 19.2
19.2 – 10.8 = 8.4
8.4÷2 = 42
4.2 x 5.4 = 22.7m_2

8)2/8 = 2/7
1u→24÷2 = 12
6 + 5 = 11u
11u x 2 = 22cm_2

9)sin→40%
Remainder→60%
May→0.25 x 60% = 15%
40% + 15% = 55%
100% - 55% = 45%
65% →45/100 x 780 = 351

10)a)20/100 x 850 = 170
850 – 170 = $680
b)7/100 x 680 - $47.60
680 + 47.60 = $727.60

11)5 x 3 = 15
5 – 2 = 13
52÷13 = 4
4 x 5 = 20

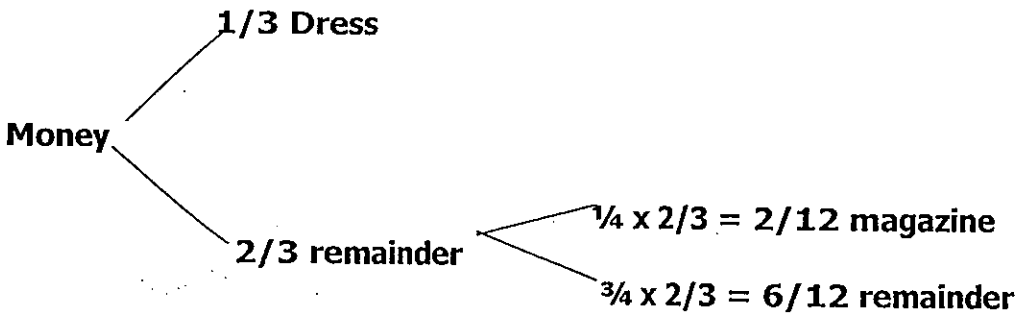
12)a)4
b)2

13)20/100 x 60 = 12%
10/100 x 40 = 4%
60% + 12% = 72%
40 – 4 =36%
72% + 36% = 108%
108% - 100% = 8%
8% →24
1u→24÷8 = 3
Day 2→3 x 100 = 300
300 + 24 = 324

14)L→70/100 x 40/100 = 28%
Diff→60 – 28 = 32%
32% →64
1u→64÷32 = 2
28% →2 x 28% = 56%
40% →80
80 – 56 = 24

15)4+5+6 = 15
15→3u
1u→15÷3 = 5
Sisters→5 x 2 = 10
10 – 4 = 6u
6u→1800
1u→1800÷6 = 300
10u→300 x 10 = 3000
15 + 10 = 25u
25u→300 x 25 = 7500
a)3000
b)7500

16)



18/54→54
1/60→54÷18 = 3
12u→3 x 12 = 36
3 x 10 = $30

a)$36
b)$30

17)After
½ of R = 5u + 420
3/5 of B = 3/8 x 10 = 6u
10 – 6 = 4
Left = 5u + 420 + 4u
5u + 4u = 9u
600 – 420 = 180
1u→180÷9 = 20
R at first →10u + 840
= 20 x 10 = 200
200 + 840 = 1040

18)a)7
b)16
c)23
d)302