Rosyth School
First Semestral Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 14th May 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 5 pages (including this cover page)
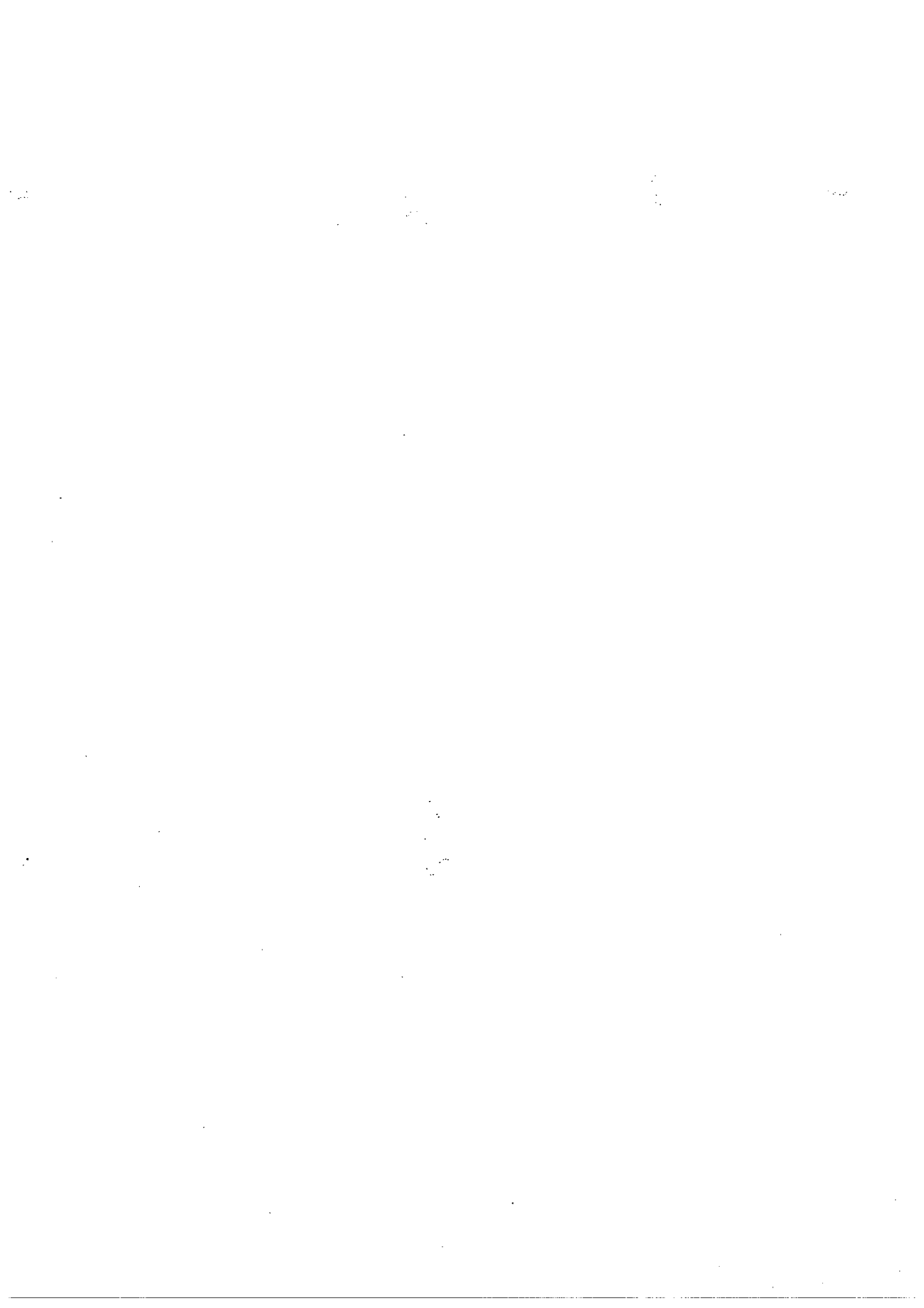
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

1. What is 8 less than half a million?

   (1) 500 008
   (2) 500 000
   (3) 499 998
   (4) 499 992

2. Which one of the following are factors of 24 and 36?

   (1) 2 and 16·
   (2) 3 and 8
   (3) 3 and 12
   (4) 4 and 24

3. Mr Raja's monthly income became $5 600 when rounded off to the nearest hundred. Which of the following is most likely to be Mr Raja's actual income?

   (1) $5 549
   (2) $5 639
   (3) $5 659
   (4) $5 709

4. What is the value in the box?

$$\frac{4}{5} = \frac{\Box}{20}$$

   (1) 5
   (2) 16
   (3) 20
   (4) 4

5. Which of the following has the same value as $\frac{4}{7} \div 8$

(1) $\frac{4}{7} \times \frac{1}{8}$

(2) $\frac{4}{7} \times \frac{8}{1}$

(3) $\frac{7}{4} \times \frac{1}{8}$

(4) $\frac{7}{4} \times \frac{8}{1}$

6. Minah folds some paper cranes for her friends. She folds 10 red, 15 green and 20 blue paper cranes altogether. What is the ratio of the number of green paper cranes to the total number of paper cranes?

(1) 1 : 3
(2) 2 : 9
(3) 4 : 9
(4) 5 : 6

7. In a pet shop, the number of rabbits to the number of hamsters is 3 : 7. There are 90 rabbits and hamsters altogether, how many hamsters are there in the pet shop?

(1) 7
(2) 27
(3) 30
(4) 63

8. Mrs Lim bought a muffin for each of her pupils. The ratio of the number of chocolate to strawberry to blueberry muffins was 7 : 8 : 14. She bought 56 strawberry muffins. How many pupils did she have in all?

(1) 29
(2) 116
(3) 203
(4) 232

9. The average mass of Susan, Muthu and Halimah is 34 kg. The total mass of Susan and Muthu is 62 kg. What is Halimah's mass?

   (1)   32 kg
   (2)   40 kg
   (3)   48 kg
   (4)   65 kg

10. The total mark scored by Eddie, Osman, Xiao Ming and Sujendran in a Mathematics test is 328. If Eddie scored 85 marks, what is the average mark scored by the other 3 boys?

   (1)   61
   (2)   73
   (3)   81
   (4)   82

11. Amanda bought 36 packets of sweets with 12 sweets in each packet. She shared them equally with Faridah, Yuki and Jeevana. How many sweets did each girl get?

   (1)   18
   (2)   83
   (3)   108
   (4)   144

12. Joel has $\frac{3}{4}$ as many stamps as Samy and $\frac{2}{3}$ as many stamps as Troy. What is the ratio of Samy's stamps to the total of Joel and Troy's stamps?

   (1)   6 : 17
   (2)   8 : 15
   (3)   8 : 23
   (4)   9 : 14

4

13. What is $\frac{2}{5}$ of 10 kg?

   (1)   40 g
   (2)   250 g
   (3)   4 000 g
   (4)   25 000 g

14. Which of the following gives the biggest value?

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

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

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

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

15. Tom, Mary and Harry have a total of 560 marbles. The ratio of the number of Tom's marbles to that of Mary's marbles is 3 : 4. The ratio of Tom's marbles to that of Harry's is 5 : 7. How many marbles does Mary have?

   (1)   40
   (2)   150
   (3)   200
   (4)   210

Rosyth School
First Semestral Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 14th May 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 6 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.
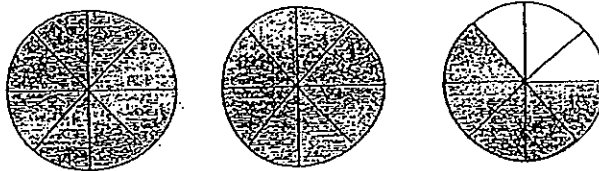
(10 marks)

16.   Find the value of 400.4 – 40.04

Ans: _____

17.   What is the missing value in the box?

16 + 60 ÷ 5 x 3 – 9 = [?   ]

Ans: _____

For questions 18 and 19, please refer to the diagram shown below:

18.   What is the mixed number for the shaded parts of the diagram?

Ans: _____

19.   What is the improper fraction for the shaded parts of the diagram?

Ans: _____

2

20. Express the ratio 18 : 36 in its simplest form.

Ans: _____

21. A piece of wire which is 55 cm long is cut into 3 pieces in the ratio of 4 : 2 : 5. What is the length of the shortest piece?

Ans: _____ cm

22. Mohan scored 6 851 points in a computer game on Saturday and 3 183 points on Sunday. What were his average points for the 2 days?

Ans: _____

3

23. How many letters in the following word have at least 1 line of symmetry?

| N | U | M | B | E | R | S |

Ans: _____

24. The sum of 3 numbers X, Y and Z is 150. X is 30.
The ratio of Y to Z is 1 : 2. What is Y?

Ans: _____

25. The ratio of boys to girls in a canteen was 2 : 3. There were 22 more girls than boys. How many boys were in the canteen?

Ans: _____

4

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. Find the value of $3\dfrac{5}{6} + 1\dfrac{1}{4} - \dfrac{1}{2}$

Ans: _____

27. Find the value of $\dfrac{4}{9} \times \dfrac{3}{8}$. Give your answer in the simplest form.

Ans: _____

28. Mdm Su sewed 16 stars on each side of a square table-cloth with one star at each corner of the table cloth. How many stars did she sew altogether on the table cloth?
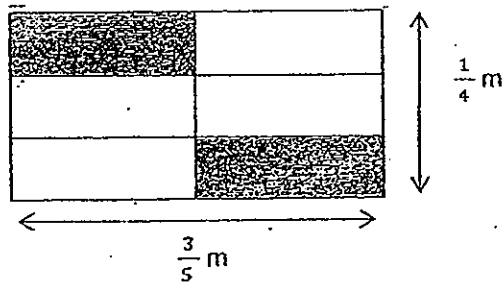

Ans: _____

5
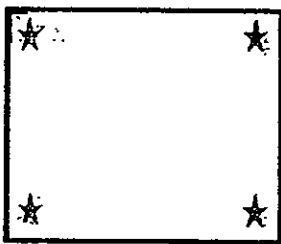
29. Joe had $40 more than Mark. After he received $60 from his father, he has 3 times as much as Mark. How much did Joe have at first?

Ans: $_____

30. $\frac{1}{3}$ of the rectangle (not drawn to scale) shown below is shaded. Find the area of the shaded parts.

Ans/ _____ m²

End of Paper

Rosyth School
First Semestral Assessment 2013
Primary 5 Mathematics

Name: _____   Register No. _____

Class: Pr 5 - _____

Date: 14th May 2013   Parent's Signature: _____

Time: 1 h 40 min

PAPER 2

<u>Instructions to Pupils:</u>

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 16 pages (including this cover page)

1

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)

1. Ravi earns $60 a day. His wife earns $12 less than him daily. What is the ratio of Ravi's daily earnings to his wife's daily earnings? Give your answer in the simplest form.

Ans: _____

2. $\frac{1}{5}$ of Emily's money is equal to $\frac{4}{7}$ of Kate's money. Find the ratio of Kate's money to Emily's money.

Ans: _____

3. Mrs Ramos bought 4 similar clocks and 6 similar bags for $394. Each bag cost $1.50 more than each clock. How much did Mrs Ramos pay for a clock?

Ans: $_____._____

4. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space within the box.
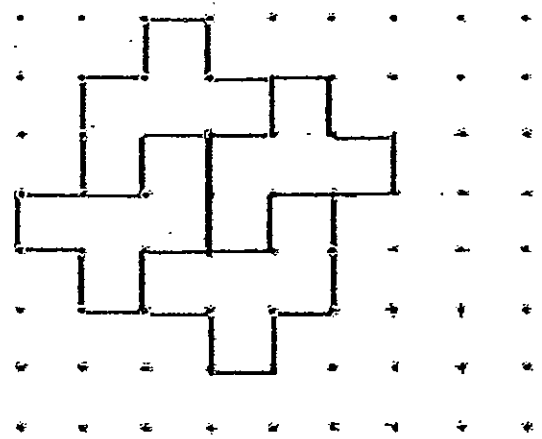
5   A teacher promised 8 pupils equal playing time for a 30-minute board game.
Only 2 pupils could play against 2 other pupils at any one time. What was the
average play time for each of the 8 pupils?

Ans:_____mins

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)

6. June had $351 and Mabel had $256. After June and Mabel had spent $400 altogether on some games, June had twice as much money as Mabel. How much had Mabel left?

Ans: _____[3m]

7. Mrs Chan bought some books at an average price of $8. Then she decided to buy another book which cost $36. Hence, the average price of the books bought became $12. How many books did she buy altogether?

Ans: _____[3m]

8. There were 91 people at a gathering. 7 of them were men. There were 21 more women than men. The rest were children. What was the ratio of the number of children to the number of women to the number of men? Give your answer in the simplest form.

Ans:_____[3m]

6

9.   Study the pattern below and answer the following questions.
     These squares are made by laying out sticks as shown below.

Pattern 1   Pattern 2   Pattern 3

(a)   How many sticks are needed to make Pattern 6?

(b)   How many squares can be made with 25 sticks?

_____[1m]

_____[2m]

10. The line graph below shows the number of visitors to the zoo from January to May last year.

(a) How many more people visited the zoo in May than in February?

(b) What was the average number of visitors from Jan to May?

Ans: (a) _____ [1m]

(b) _____ [2m]

8
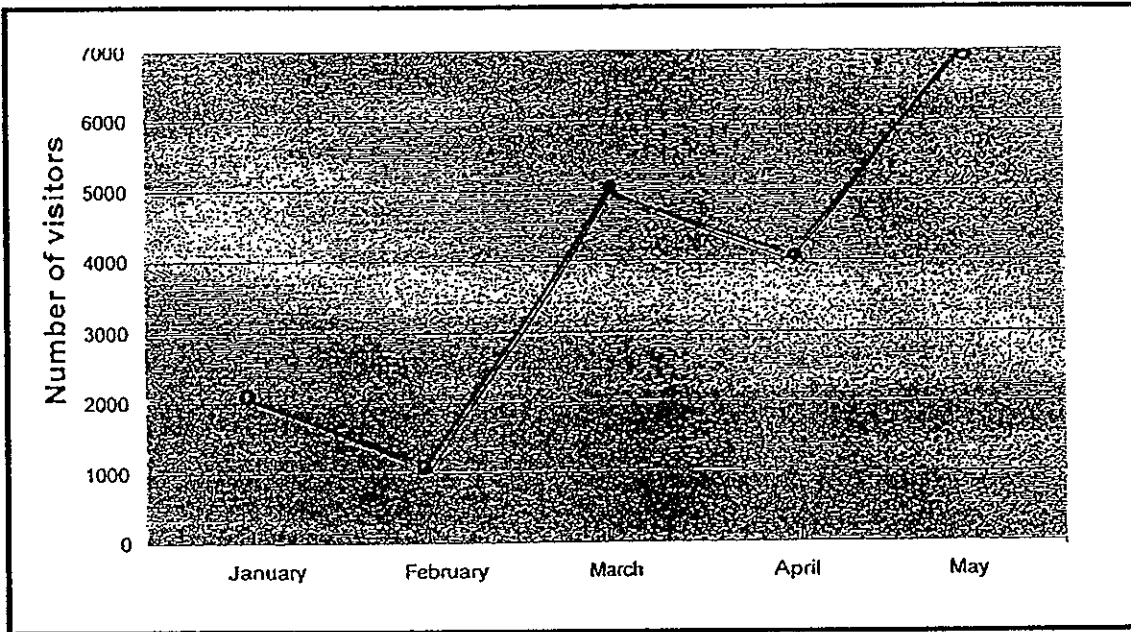
.11. Ali had 27 marbles more than Ben. Charles had $\frac{2}{3}$ as many marbles as Ali. They had 165 marbles altogether. How many more marbles did Charles have than Ben?

Ans:_____[4m]

12. The total cost of 7 necklaces and 5 bracelets is $961.

The cost of 3 bracelets is equal to the cost of 2 necklaces.

What is the total cost of 1 necklace and 1 bracelet?

Ans: _____[4m]

13. The average mass of Box A, B and C was 18 kg. When Box D was included, the average mass of the boxes became 21 kg. Box A weighed twice as heavy as Box B. Box C weigh 750 g heavier than Box D.

a) What was the mass of Box B in kilogramme?

b) What was the difference in mass between Box B and Box D?

Ans: (a) _____ [3m]

(b) _____ [1m]

14. Omar has a total of 56 coins. They are either 10-cent coins, 20-cent coins or 50-cent coins. He has thrice as many 20-cent coins as 50-cent coins and 16 more 10-cents coins than 50-cents coins. What is the total value of all his coins?

Ans:_____ [4m]

12

15. A calculator cost $15 and a watch cost 3 times as much as a calculator. Jenny bought some calculators and watches for $600. She bought 4 more watches than calculators. How many watches did she buy?

Ans:_____ [4m]

16. Amy and Bala had some number cards. If Bala gave Amy 22 cards, they would have equal number of cards   If Amy gave Bala 110 cards, Bala would have 4 times as many as Amy.

(a) How many number cards does Amy have?

(b) How many number cards does Bala have?

Ans: (a) _____ [3m]

(b) _____ [2m]

17. Mrs Ong had some blue, green and yellow pins in her sewing kit. $\frac{2}{5}$ of the pins were blue. $\frac{1}{8}$ of the remainder was yellow and the rest was green. There were 10 more green pins than blue pins.

(a) What was the total number of pins in the sewing kit?

(b) How many more green pins than yellow pins were there in the sewing kit?

Ans: (a) _____ [3m]

. (b) _____ [2m]

18. Joy spent $\frac{3}{4}$ of her money on 3 blouses and Grace spent $\frac{4}{9}$ of her money

on 2 skirts. They were each left with an equal amount of money. One

blouse cost $9 more than one skirt. How much money did they have

altogether at first?

Ans: _____ [5m]

End of Paper

16

School: ROYSTH SCHOOL
Subject: PRIMARY 5 MATHEMATICS
Term: SA1

Paper 1

1)	4	6)	1	11)	3
2)	3	7)	4	12)	2
3)	2	8)	3	13)	3
4)	2	9)	2	14)	4
5)	1	10)	3	15)	3

16. 360.36

17. 43

18. $2\frac{5}{8}$

19. $\frac{21}{8}$

20. 1 : 2

21. 10

22. 5017

23. 4

24. 40

25. 44

26. $4\frac{7}{12}$

27. $\frac{1}{6}$

28. $16 - 2 = 14$
    $14 \times 4 = 56$
    $56 + 4 = \mathbf{60}$

29. $2u \rightarrow 40 + 60 = 100$
    $1u \rightarrow 100 \div 2 = 50$
    $3u \rightarrow 50 \times 3 = 150$
    At first $\rightarrow 150 - 60 = \mathbf{90}$

30. $\frac{3}{5} \times \frac{1}{4} = \frac{3}{20}$
    $\frac{3}{20} \times \frac{2}{3} = \frac{2}{20}$

$^3/_{20} - {}^2/_{20} = {}^1/_{20}$

Paper 2

1. Wife → 60 − 12 = 48
   R : W
   60 : 48
   30 : 24
   5 : 4

2. ⅕ E = $^4/_7$ K
   $^4/_{20}$ E = $^4/_7$ K
   E → 20u
   K → 7u
   K : E
   7 : 20

3. Extra → 1.50 x 6 = 9
   10 clocks → 394 − 9 = 385
   1 clock → 385 ÷ 10 = **$38.50**

4.
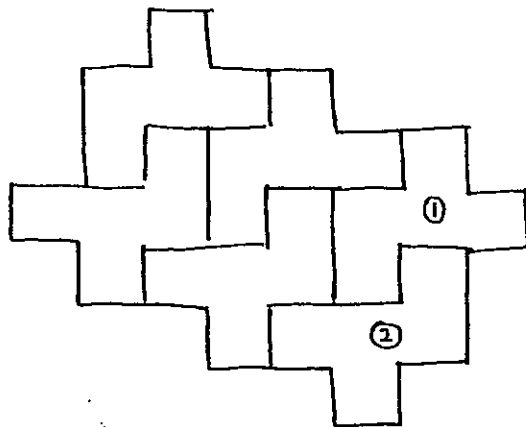
5. Time played → 30 x 4 = 120
   Time for each pupil → 120 ÷ 8 = **15 mins**

6. 351 + 256 = 607
   Left → 607 − 400 = 207
   3u → 207
   1u → 207 ÷ 3 = **$69**

7. Big gap → 36 − 12 = 24
   Small gap → 12 − 8 = 4
   Original books → 24 ÷ 4 = 6
   Total → 6 + 1 = **7 books**

8. No. of women → 7 + 21 = 28
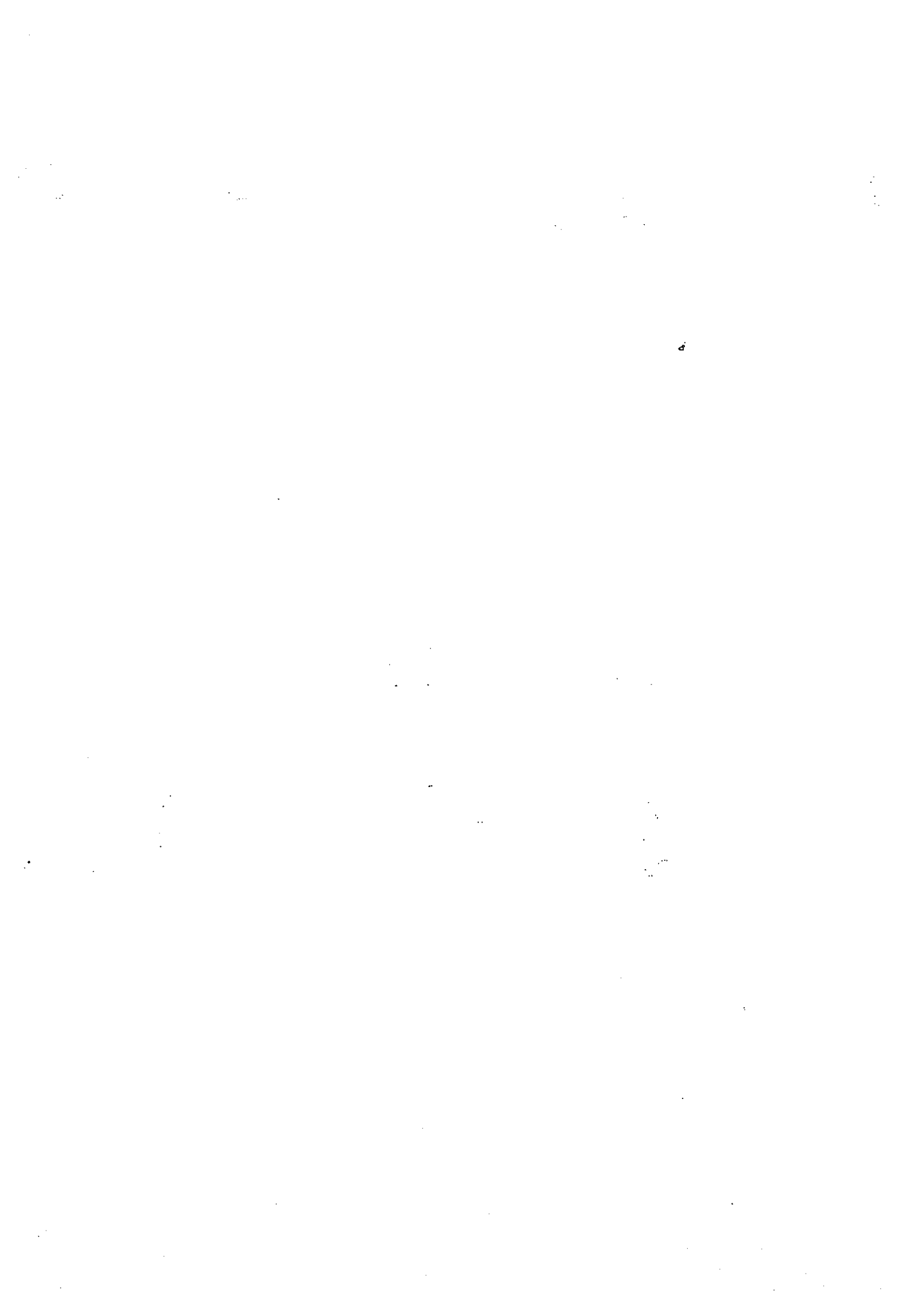
Total adults → 28 + 7 = 35
No. of children → 91 − 35 = 56
  C : W : M
 56 : 28 : 7
  8 : 4 : 1

9. (a) Pattern 6 → 5 x 3 + 4 = **19**

   (b) 1st square → 25 − 4 = 21
     No. of squares → 21 ÷ 3 = 7
     Total squares → 7 + 1 = **8**

10. Difference → 7000 − 1000 = 6000
    Total visitors → 2000 + 1000 + 5000 + 4000 + 7000 = 19000
    Average no. of visitors → 19000 ÷ 5 = 3800
    (a) **6000** more people visited the zoo in max than Feb.

    (b) The average is **3800**.

11. 8u → 165 + 27 = 192
    1u → 192 ÷ 8 = 24
    3u → 24 x 3 = 72
    Ben → 72 − 27 = 45
    Charles → 24 x 2 = 48
    Difference → 48 − 45 = 3
     A :   B : C
    3u : 3u − 27 : 2u
    8u − 27 = 165
    8u → 192
    1u → 24
    2u → 48
    3u − 27 → 3 x 24 − 27 = 45
    Difference → 48 − 45 = **3**

12. 3b = 2n
    7n + 5b = 961
    14n + 10b = 1922
    31b → 1922
    1b → 1922 ÷ 31 = 62
    3b → 62 x 3 = 186
    2n → 186
    1n → 186 ÷ 2 = 93
    1n + 1b = 93 + 62 = **$155**

13. (a) Total (A, B, C) → 18 x 3 = 54
     Total (A, B, C, D) → 21 x 4 = 84
     Box D → 84 − 54 = 30
     3u → 84 − 30 − 30.75 = 23.25
     1u → 23.25 ÷ 3 = **7.75 kg**

(b) 30 - 7.75 = **22.25 kg**

14. 5u → 56 – 16 = 40
   (50¢) 1u → 40 ÷ 5 = 8
   (20¢) 3u → 8 x 3 = 24
   10¢ → 8 + 16 = 24
   Value of 50¢ coins → 8 x 0.50 = $4
   Value of 20¢ coins → 24 x 0.20 = $4.80
   Value of 10¢ coins → 24 x 0.10 = $2.40
   Total value → $2.40 + $4.80 + $4 = **$11.20**

15. Cost of a watch → 15 x 3 = 45
   Cost of 4 watches → 45 x 4 = 180
   Cost of the same number of calculator and watch → 600 – 80 = 420
   Cost of 1 set of watch and calculator → 15 + 45 = 60
   No. of sets → 420 ÷ 60 = 7
   No. of watches → 7 + 4 = **11**

16. 3u → (110 x 2) + (22 x 2) = 264
   1u → 264 ÷ 3 = 88
   Amy → 88 + 110 = 198
   4u → 88 x 4 = 352
   Bala → 352 – 110 = 242
   (a) Amy has **198** numbers of cards.

   (b) Bala has **242** numbers of cards.

17. (a) 21u – 16u = 5u
     5u → 10
     1u → 10 ÷ 5 = 2
     40u → 2 x 40 = **80**

   (b) 21u → 21 x 2 = 42
     3u → 2 x 3 = 6
     Difference → 42 – 6 = **36**

18. ¼J = $\frac{5}{9}$G
   $\frac{5}{20}$J = $\frac{5}{9}$G
   J → 20u
   G → 9u
   20u ÷ 4 = 5u
   4u ÷ 2 = 2u
   5u – 2u = 3u
   3u → 9
   1u → 3
   20u + 9u = 29u
   29u → 3 x 29 = **$87**