Rosyth School
Second Continual Assessment 2014
Primary 5 Mathematics

Name: _____ Register No. _____

Class: Pr 5 - _____

Date: 19th August 2014 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 7 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. 40 thousands 4 ones 6 tenths and 6 thousandths is the same as _____.

   (1) 4 004.66
   (2) 4 004.606
   (3) 40 004.66
   (4) 40 004.606

2. The sum of 7 numbers is 7 014. Find the average of the numbers.

   (1) 102
   (2) 120
   (3) 1 002
   (4) 1 020

3. What is the value of $200 - (28 - 8) \div 5 \times 2$?

   (1) 72
   (2) 192
   (3) 198
   (4) 394

4. Mrs Tang bought 12 raisin buns, 21 butter buns and 15 coconut buns. What was the ratio of the number of butter buns to the total number of buns?

   (1) 7 : 9
   (2) 7 : 16
   (3) 9 : 7
   (4) 9 : 16

(Go on to the next page)

5. Mrs Teo bought a pizza. Her two children ate $\frac{1}{2}$ of it and $\frac{1}{3}$ of it respectively. What fraction of the pizza was left?

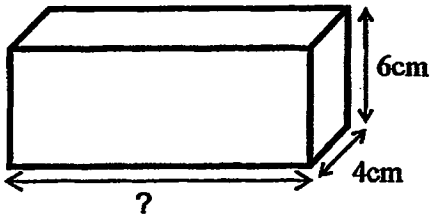
(1) $\frac{1}{2}$

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

(3) $\frac{1}{6}$

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

6. The volume of the box shown below is 192 cm^3. What is the length of the box?



(1) 8 cm

(2) 19.2 cm

(3) 32 cm

(4) 48 cm

7. There are 64 children in an art class. 48 of them are boys.
What percentage of these children are girls?

(1) 16%

(2) 25%

(3) 48%

(4) 75%

(Go on to the next page)

8. A book cost $25 before GST. Mark had to pay 7% GST for the book. What was the GST amount?

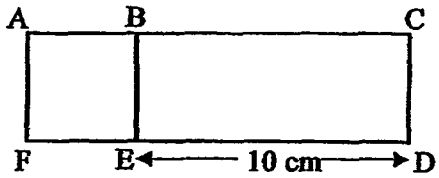
(1) $1.25

(2) $1.75

(3) $23.25

(4) $26.75

9. The figure below is not drawn to scale. ABEF is a square and BCDE is a rectangle. Given that the area of the rectangle is 70 cm^2, find the area of the square.



(1) 28 cm^2

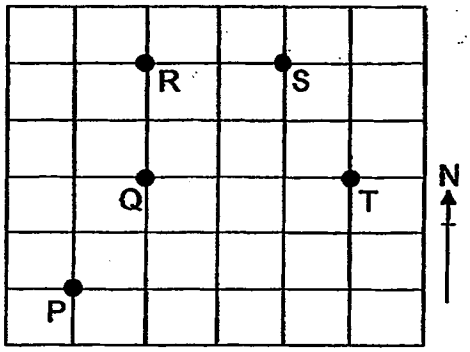
(2) 49 cm^2

(3) 100 cm^2

(4) 149 cm^2

(Go on to the next page)

10. In the square grid shown below, which letter is north-east of Q?



(1) P
(2) R
(3) S
(4) T

11. The table below shows the parking charges at a car-park.

1st hour	$2
Every additional $\frac{1}{2}$ hour or part thereof	$1

Mr Raju parked his car from 4 p.m. to 6.40 p.m.
How much did he have to pay?

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

(Go on to the next page)

12. Mary had a 4 m long ribbon. She cut 5 equal pieces from it and had $\frac{1}{4}$ m of it left.

What was the length of each piece of ribbon?

(1) $\frac{1}{5}$ m

(2) $\frac{11}{20}$ m

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

(4) $\frac{4}{5}$ m

13. The price of the book was \$60 before discount.
What was the price of the same book after a 20% discount?

(1) \$12

(2) \$15

(3) \$48

(4) \$75

14. Raju, Su Ling and Tom shared \$640 in the ratio 1 : 3 : 4.
How much more money did Raju and Tom receive than Su Ling?

(1) \$16

(2) \$80

(3) \$160

(4) \$480

(Go on to the next page)

15. 20% of a wall was painted blue and 25% of it was painted green.
The rest of the wall was painted yellow. The area of the wall was 200 m^2.
What was the area of the wall that was painted yellow?

(1) 40 m^2
(2) 50 m^2
(3) 90 m^2
(4) 110 m^2

End of Booklet A

(Go to Booklet B)

Rosyth School
Second Continual Assessment 2014
Primary 5 Mathematics

Name:_____ Register No. _____

Class: Pr 5 - _____

Date: 19th August 2014 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)

Do not write in this spac

16. $83\,330 = 80\,000 + \boxed{\ ?\ } + 30$

What is the missing number in the box?

Ans:_____

17. Express 4.12 as a mixed number in its simplest form.

Ans:_____

18. Express 20 : 36 : 16 in its simplest form.

Ans:_____

19. $36 \times 16 + \boxed{\ ?\ } = 36 \times 18$

Find the value of the missing number the box.

Ans:_____

(Go on to the next page)

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20. Express 650 m as a percentage of 1 km.

Ans:_____%

21. Sally's pocket money was $40. Her pocket money was increased by 25% the following week. How much was her pocket money after the increase?

Ans: $_____

22. Ron arranged the cubes as shown in Figure 1 below. He later removed some of the cubes and rearranged the remaining cubes as shown in Figure 2. How many cubes did he remove?

Figure 1

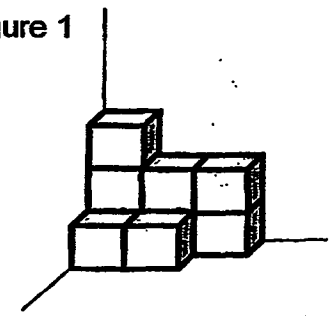
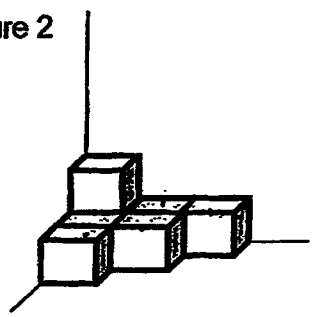


Figure 2



Ans:_____

(Go on to the next page)

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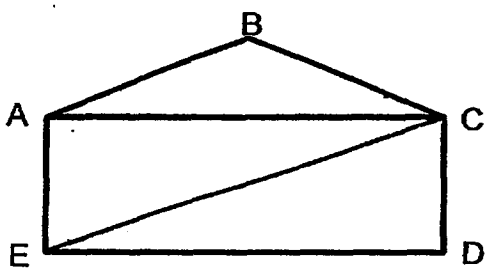
23. 12 cubes of side 2 cm are used to fill a box completely. What is the capacity of the box?

Ans:_____ cm^3

24. In the figure (not drawn to scale) shown below, ABC is an isosceles triangle and ACDE is a rectangle. How many angles inside this figure are less than 90° ?



Ans:_____

25. There are 40 marbles in a box. 8 of them are red and the rest are blue. Find the ratio of the total number of marbles in the box to the number of blue marbles.

Ans:_____

(Go on to the next page)

Do not write in this space

Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

26. Peter exercises for an hour every day. $\frac{1}{3}$ of the time is spent cycling and the rest of the time is spent jogging. How many minutes does he spend jogging?

Ans:_____min

27. Siti placed 10 flowers in each of the five vases. $\frac{2}{5}$ of the flowers were orchids and the rest were lilies. How many lilies were there altogether?

Ans:_____

(Go on to the next page)

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28. In a class of 40 pupils, 80% of them were able to swim. How many more pupils could swim than pupils who could not swim?

Ans: _____

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29. Mr Tan has between 40 and 60 sweets. If he gives 5 sweets to each of his pupils, he will have 4 sweets left. If he gives 9 sweets to each of his pupils, he will need 40 more sweets. How many pupils does Mr Tan have?

Ans: _____

(Go on to the next page)

30. Pei Hwa has $33.40. He wants to spend all of it on 20-cent and 50-cent stamps. If he buys some of each, what is the greatest number of 50-cent stamps that he can buy?

Ans: _____

End of Booklet B

Do not wri
in this spa

Rosyth School
Second Continual Assessment 2014
Primary 5 Mathematics

Name:_____ Register No. _____

Class: Pr 5 - _____

Date: 19 Aug 2014 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 14 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.

(10 marks)

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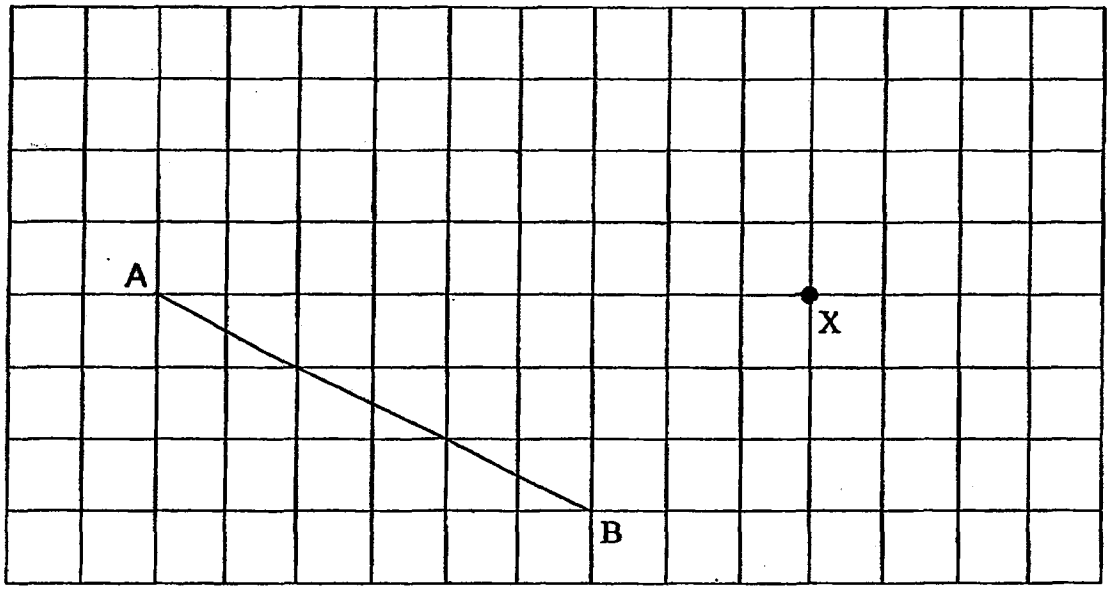
1. In the square grid below, AB is a straight line. Draw a line parallel to AB and passes through point X.



2. Tom uses 2.5 ℓ of grape juice, 1.3 ℓ of pineapple juice and 1ℓ of mango juice to make some fruit punch. He pours the fruit punch equally into 16 cups. How many millilitres of fruit punch are there in each cup?

Ans: _____ mℓ

(Go on to the next page)

3. At first, the ratio of Sally's savings to Melvin's saving was 7 : 6. After Sally spent $52 on a bag, the ratio of Sally's saving to Melvin's savings became 5 : 8. What was Melvin's savings at first?

Do not write in this space

Ans: $_____

4. The ratio of the number of apples to oranges at a fruit stall was 4 : 5. After Jane bought $\frac{1}{4}$ of the oranges, there were 558 apples and oranges left. Find the total number of apples and oranges at first.

Ans: _____

(Go on to the next page)

5. Jake had 60% as many erasers as stickers. After he gave 10 stickers and 10 erasers away, there were twice as many stickers as erasers. What was the total number of erasers and stickers he had at first?

Ans:_____

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(Go on to the next page)

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)

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6. Mrs Raja paid $540 for 12 skirts and 7 blouses. If the cost of 3 skirts was the same as 2 blouses, what was the cost of one skirt?

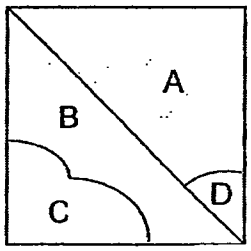
Ans: _____ [3m]

7. After Mr Li sold $\frac{1}{3}$ of the puppies and $\frac{3}{7}$ of the hamsters in his pet shop, he had an equal number of puppies and hamsters left. There were 16 hamsters left. What was the total number of puppies and hamsters he had at first?

Ans: _____ [3m]

(Go on to the next page)

8. The square below (not drawn to scale) is divided into 4 parts A, B, C and D.



The ratio of Area A to Area B is 5 : 3. The ratio of Area B to Area C is 7 : 6.
Find the ratio of Area C to Area D.

Ans:_____[3m]

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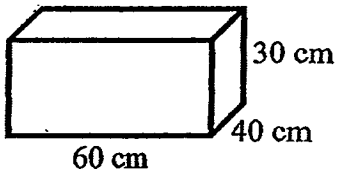
9. A rectangular tank measuring 60 cm by 40 cm by 30 cm is $\frac{3}{5}$ filled with water.

How many bottles of capacity 400 ml, when each filled completely, are needed to fill the tank to its brim?



Ans:_____[3m]

(Go on to the next page)

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in this spac

10. Bala scored 77, 78 and 82 for his first three Math tests. He wanted to improve his average marks by 4 marks in the next test. How many marks must he score for his next Math test?

Do not write in this spac

Ans: _____[3m]

11. Ashley wanted to finish reading a book in a week. On the first day of the week, she read 12% of the book. On the second day, she read another 25% of the book. Then, she read 189 pages daily for the rest of the week What was the total number of pages in the book?

Ans: _____[3m]

(Go on to the next page)

12. The total mass of 3 tins of sweets and 4 tins of biscuits was 84 kg. Each tin of sweets is 800 g heavier than all the tins of biscuits.

(a) Find the mass of each tin of sweets.

(b) Find the mass of each tin of biscuits.

Do not write in this space

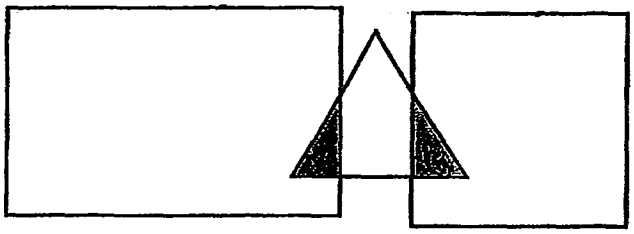
Ans: (a) _____ [2m]

(b) _____ [2m]

(Go on to the next page)

13. The figure below is not drawn to scale. It is made up of a square, a rectangle and a triangle which overlap each other to form 2 shaded triangles of equal area. $\frac{2}{9}$ of the rectangle and $\frac{1}{7}$ of the square is shaded. The total area of the square and rectangle is 138 cm^2. Given that $\frac{1}{3}$ of the triangle is shaded, find the area of the unshaded triangle.

Do not write in this space



Ans: _____ [4m]

(Go on to the next page)

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14. Tank A was completely filled with water at first. Tanks B and C were empty. Then, $\frac{5}{12}$ of the water in Tank A was poured into Tank B without spilling. Next, $\frac{2}{3}$ of the water in Tank B was poured into Tank C. In the end, $\frac{5}{6}$ of Tank C was filled with water.

(a) Tank C measured 12 cm by 8 cm by 6 cm. What was the capacity of Tank B?

(b) What was the amount of water in Tank A at first?

Ans: (a) _____ [2m]

(b) _____ [2m]

(Go on to the next page)

Do not write in this space

15. Johari had $96 more than his sister.

After Johari received another $107 from his father and his sister spent $148, Johari had 4 times as much money as his sister.

(a) How much did Johari have at first?

(b) In the end, how much money must Johari give to his sister so that they would have the same amount of money?

Ans: (a) _____ [3m]

(b) _____ [2m]

(Go on to the next page

16. At a sports carnival, 60% of the events were individual events and the rest were team events. By half time, some individual events were completed. In the second half of the carnival, the percentage of team events increased to 80%, and there were 42 more team events than individual events.

(a) How many individual events were completed at half time?

(b) What was the total number of individual and team events at the beginning of the carnival?

Do not write in this space

Ans: (a) _____ [3m]

(b) _____ [2m]

(Go on to the next page)

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17. Madam Shanti made some cupcakes. She sold $\frac{1}{4}$ of them in the morning and $\frac{5}{8}$ of the remainder in the afternoon. She sold 140 more cupcakes in the afternoon than in the morning. Then, she packed the remaining cupcakes into boxes of 15 cupcakes each.

(a) How many cupcakes did she make at first?

(b) How many boxes of cupcakes did she pack in the end?

Ans: (a) _____ [3m]

(b) _____ [2m]

(Go on to the next page)

18. The total of 4 numbers is 480. If the first number is tripled, the second number is halved, the third number increases by 58 and the fourth number decreases by 5, the four numbers will have the same value. What is the value of each of the four numbers?

Do not write in this space

Ans: First Number: _____

Second Number: _____

Third Number: _____

Fourth Number: _____

[5m]

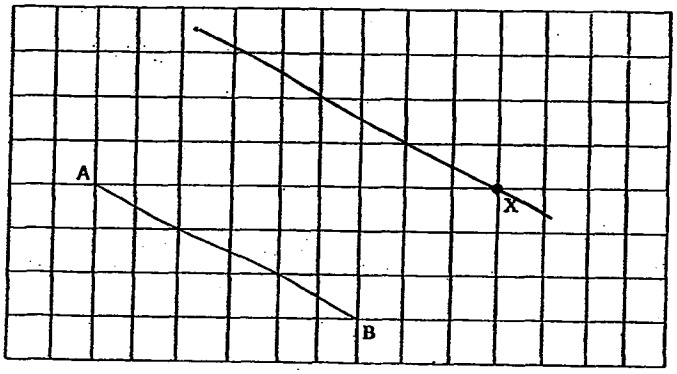
End of Paper

Rosyth School
CA 2 2014
Primary 5

1) 4
2) 3
3) 2
4) 2
5) 3
6) 1
7) 2
8) 2
9) 2
10) 3
11) 2
12) 3
13) 3
14) 3
15) 4
16) 3300
17) 4/3/25
18) 5 : 9 : 4
19) 72
20) 65%
21) $50
22) 2 cubes
23) 96 cm^3
24) 6
25) 5 : 4
26) 40 min
27) 30 lilies
28) 24 pupils
29) 40+4 = 44
    9-5 = 4
    44/4 = 11 pupils
30) 66 stamps

Paper 2

1)



2) 2.5+1.3+1 = 4.8 litres
    4800/16 = 300 ml

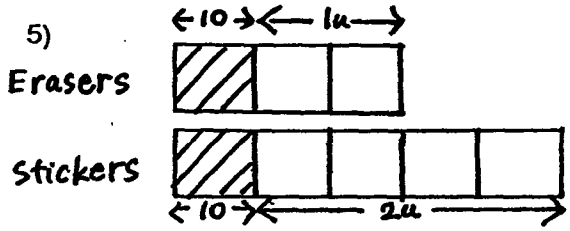
3)

	Sally : Melvin
At first,	7 : 6
New,	5 : 8
At first,	56 : 48
New,	30 : 48

Difference: 26 units
52/26 = $2
48*2 = $96

4) Apples : Oranges
4 : 5
3/4*5 = 3/3/4
4+3/3/4 = 7/3/4
7/3/4 units –> 558
9 units –> 9/(7/3/4)*558 = 648 apples and oranges at first

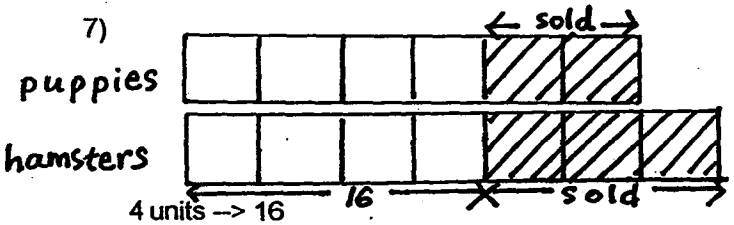
5)



8*10 = 80 erasers and stickers at first

6) 3 skirts = 2 blouses
12 skirts = 8 blouses
12 skirts + 7 blouses –> $540
8 blouses + 7 blouses –> $540
15 blouses –> $540
1 blouse –> $540/15 = $36
2 blouses –> $36*2 = $72
1 skirt = $72/3 = $24

7)



4 units –> 16
13 units –> 13/4*16 = 52 puppies and hamsters at first.

8) A : B : C : D
5 : 3
7 : 6

35 : 21 : 18 : ?

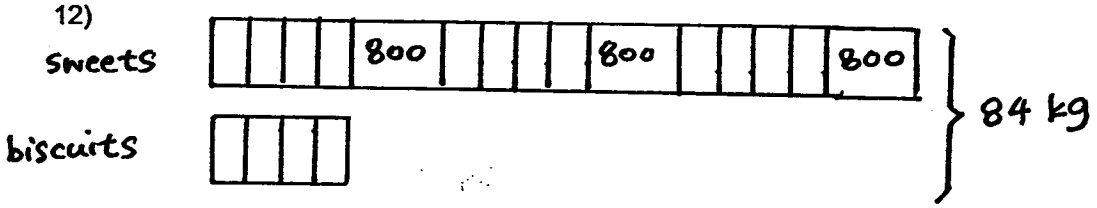
Since A+D = B+C
35 + D = 21 + 18
35 + D = 39
D = 39-35 = 4
C : D = 9 : 2

9) Volume of water = 2/5*60*40*30 = 28 800 ml
28800/400 = 72 bottles

10) 77+78+82 = 237
237/3 = 79
79+4 = 83
83*4 = 332
332-237 = 95 marks

11) 100%-12%-25% = 63%
189*5 = 945
945/63 = 15
15*100 = 1500 pages

12)



a) 0.8*3 = 2.4 kg
84-2.4 = 81.6 kg
81.6/4 = 20.4 kg
20.4+0.8 = 21.2 kg
b) 20.4/4 = 5.1 kg

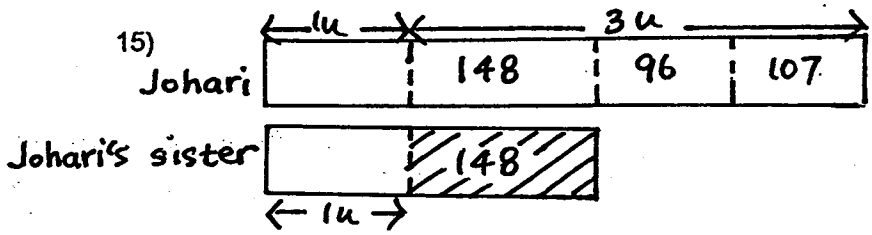
13)

	Unshaded : Shaded
Rectangle	7 : 2
Square	6 : 1
	= 12 : 2
Triangle	2 : 1
	= 8 : 4

Therefore, 7+2+12+2 = 23 units
138/23 = 6
6*8 = 48 cm²

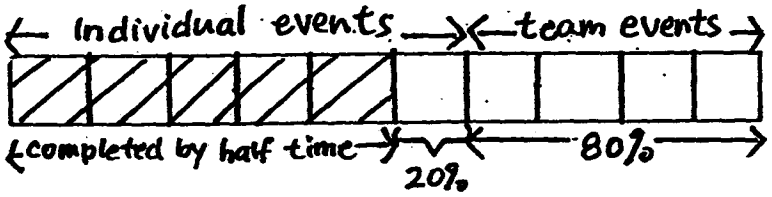
14) 5/6*12*8*6 = 480 cm³
a) 480/2 = 240 cm³
240*3 = 720 cm³ (B)
b) 720/5 = 144 cm³
12*144 = 1728 cm³ (A)

15)



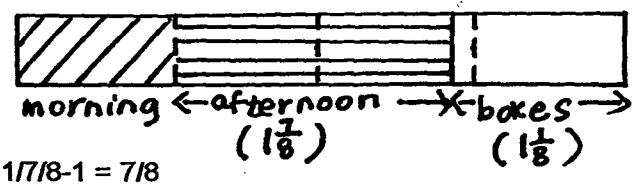
a) 148+96+107 = $351
$351/3 = $117
$117+$148+$96 = $361
b) $351/2 = $175.50

16)



4u-1u = 3u
42/3 =14
14*5 = 70 individual events were completed at half time.
14*10 = 140 events

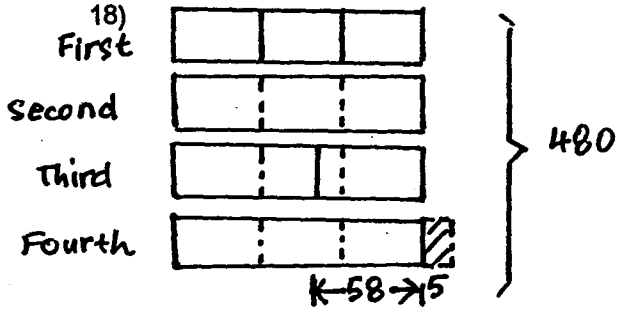
17)



a) 1/7/8-1 = 7/8
7/8 u --> 140
4 u --> 4/(7/8)*140 = 640 cupcakes

b) (1/1/8)/4*640 = 180
180/15 = 12 boxes of cupcakes

18)



480+58-5 = 533
533/13 = 41
41*6 = 246
41*3 = 123
123-58 = 65
123+5 = 128
1st Number : 41, 2nd Number : 246, 3rd Number : 65, 4th Number : 128