Rosyth School
Second Continual Assessment 2010
Primary 5 Mathematics

Name: _____   Register No._____

Class: Pr 5 -_____

Date: 24 Aug 2010   Parent's Signature: _____

Total Time for Booklets A and B : 50 min

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)

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Section A

Questions 1 to 10 carry 1 mark each and questions 11 to 15 carry 2 marks each. 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 answer on the OAS (Optical Answer Sheet).

(20 marks)

1) A plane flew from Singapore to Johannesburg. The total distance travelled is 8 671 589 m. Round off this distance to the nearest 1000 m.

   (1) 8 670 000 m

   (2) 8 671 000 m

   (3) 8 671 600 m

   (4) 8 672 000 m

2) Find the sum of $\frac{2}{3}$ and $\frac{1}{6}$.

   (1) $\frac{1}{9}$

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

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

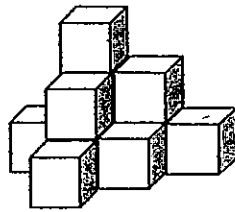   (4) $\frac{5}{6}$

3) Find the missing number 8 : 12 = 64 : ___ .

(1) 20

(2) 48

(3) 96

(4) 4

4) The following solid is made up of 1-cm cubes. Find the volume of the solid.

(1) 7 cm^3

(2) 9 cm^3

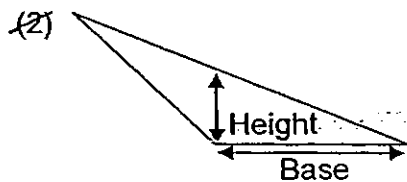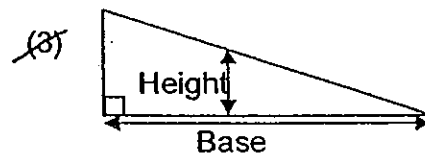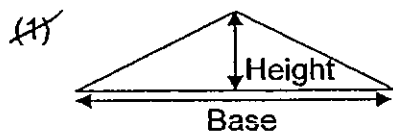(3) 10 cm^3

(4) 11 cm^3

5) In which of the triangle below is the base and corresponding height indicated correctly?

(1)

Height
Base

(3)

Height
Base

(2)

Height
Base

(4)

Height
Base
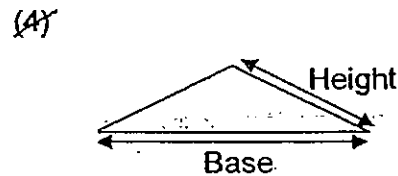
6) Find 0.23 × 5000.

    (1) 11.5

    (2) 115

    (3) 1150

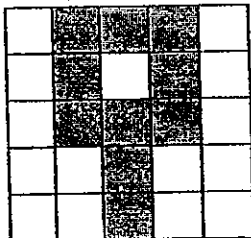   (4) 11 500

7) Express 78 cm in metres.

    (1) 0.078 m

    (2) 0.78 m

    (3) 7 80 m

    (4) 78 00 m

8) What percentage of the figure below is shaded?

    (1) 10 %

    (2) 25 %

    (3) 40 %

    (4) 60 %

9) Express 34% as a fraction in its simplest form.

(1) $\dfrac{17}{100}$

(2) $\dfrac{17}{50}$

(3) $\dfrac{17}{25}$

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

10) Express 1.02 as a percentage.

(1) 0.102 %

(2) 1.02%

(3) 10.2%

(4) 102%

11) Dominic had $\dfrac{4}{9}$ kg of flour. He packed the flour into 3 equal bags. What is the mass of flour in each bag?

(1) $\dfrac{1}{27}$ kg

(2) $\dfrac{4}{27}$ kg

(3) $\dfrac{4}{9}$ kg

(4) $1\dfrac{1}{3}$ kg

12) The CCA for a group of students are Athletics, Badminton and Choir. There are 3 students in Athletics for every 4 students in Badminton. There are 8 students in Badminton for every 10 students in Choir. There are altogether 9 students in Athletics, how many students are in Choir?

(1) 12

(2) 15

(3) 24

(4) 30

13) Given that ABCD is a square, find the area of triangle EDC.
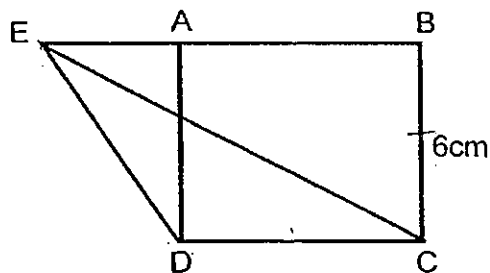
(1) 15 cm^2

(2) 18 cm^2

(3) 27 cm^2

(4) 36 cm^2

14) For every 10 ℓ of water used at home, it would cost $1.17. The Tan family used 2000 ℓ of water in the month of June. How much is their water bill for June?

1) ~~$23.40~~

2) ~~$234.00~~

3) ~~$2340.00~~

4) ~~$23 400.00~~

15) Nadia's mother gives her a list of fruits to buy. However, part of the paper was torn.

Type of fruit	Number of fruit
Apples	10
Pears	20
Oranges	

The oranges are 40% of the total number of fruits that Nadia has to buy, how many oranges must she buy?

1) ~~20~~

2) ~~40~~

3) ~~60~~

4) ~~70~~

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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 8 pages (including this cover page)

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)

16. Express one million, forty thousand and ninety-nine in numerals.

Ans:_____
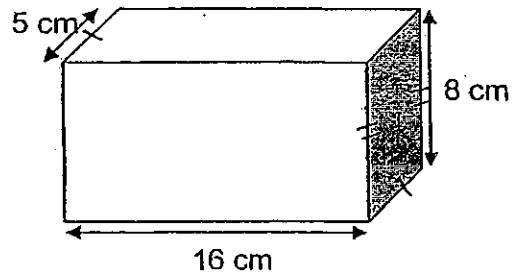
17. The ratio of Albert's money to Bala's money is 3 : 7. Bala has $56. How much money do they have altogether?

Ans: $ _____

18. Express 21 : 42 : 91 in its simplest form.

Ans:_____

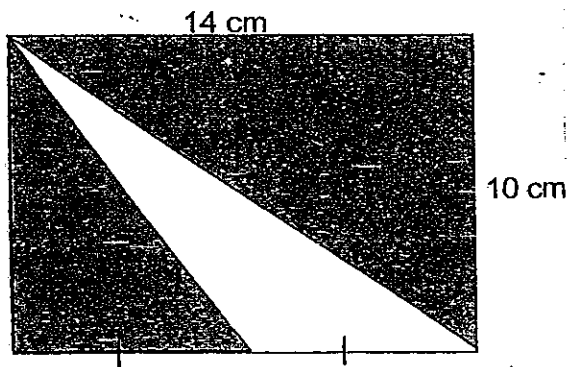19.   What is the volume of the cuboid shown below?

5 cm

8 cm

16 cm

Ans:_____ cm³

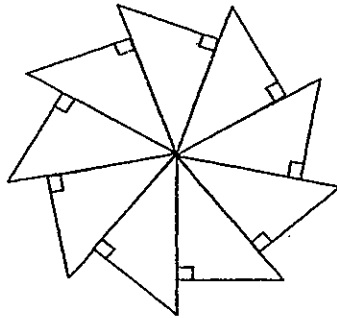
20.   Express 7003 cm³ in litres and millilitres.

Ans: _____ℓ_____mℓ

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21.   Find the area of the shaded part.

14 cm

10 cm

Ans: _____ cm²

9

22. This figure is made up of 8 similar triangles (not drawn to scale). The base of each triangle is 3 cm. The height of each triangle is 4 cm. What is the area of the figure?

Ans:_____cm²

23. The area of a rectangular field is 196.4 m². Its length is 20 m. What is the breadth of the field?

Ans: _____ m

24. An egg cost $0.23 each. A hawker orders 500 eggs. How much does he need to pay for the eggs?

Ans: $_____

25. Jeremy saves $15 00 in the bank and received $22.50 as the annual interest. Find the interest rate given by the bank.

Ans: _____ %

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space below for each question and write your answer in the blanks provided. For questions which require units, give your answer in the units stated.   (10 marks)

26)   Find the value of (85 + 15) ÷ 5 × 4.

Ans: _____

27)   At a supermarket, similar boxes of juice are stacked on 3 shelves. Express the remaining space on the shelves as a fraction of the total space on the shelves. (Express your answer in its simplest form)
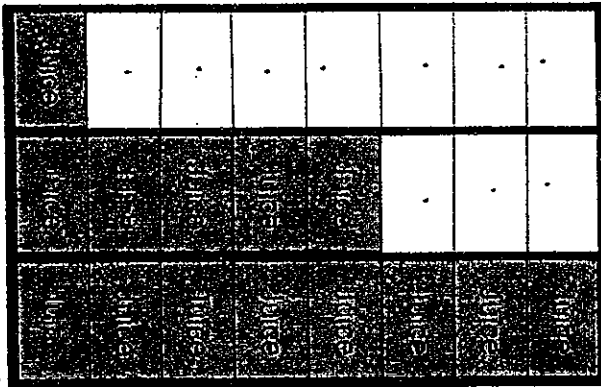
Ans: _____

28) A figure is made up of 4 identical triangles. Find the area of the shaded part in the figure shown below.

8 cm

12 cm
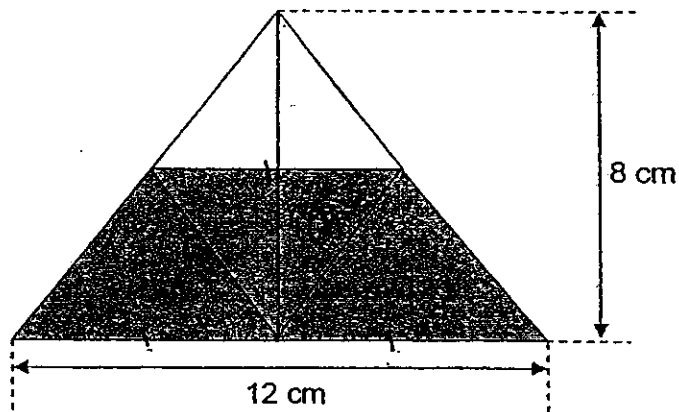
Ans: _____ cm²

29) There are two bunches of grapes. The first bunch weighs 1.6 kg. The second bunch weighs 475 g less than the first bunch. What is the total mass of the two bunches of grapes?

Ans: _____ kg

30)

Alpha Electronic Goods Store

Latest LCD Television & DVD players

A 42-inch LCD television is now only $1000

A DVD player is now only $100

Note : Prices above are before 7% GST

Mr. Ang saw the above advertisement and went to the store to buy two 42-inch LCD television sets and three DVD players. How much GST did he have to pay for the items he bought?

Ans: $_____

~END OF PAPER~

Have you checked your work thoroughly?

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Class: Pr 5 -_____

Date: 24 Aug ~~2009~~ 2010

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	

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1

Questions 1 to 5 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:

(10 marks)

1. John is 10 years old now. His father will be 3 times as old as him in four years' time. What is their total age four years later?

Answer:_____

2. The ratio of the number of girls to the number of boys in a chess club was 4:3 at first. When 20 boys joined the club later, the number of boys became twice the number of girls. What is the total number of boys and girls in the club now?

Answer:_____

3. The areas of squares A, B and C are 36 cm^2, 64 cm^2 and 100 cm^2 respectively. Find the area of the shaded triangle.
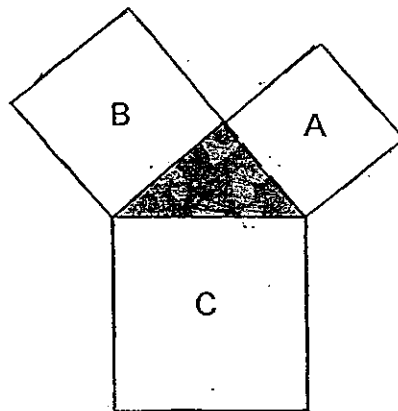
Answer: _____ cm^2

2

4. A piece of wire is bent to form a square of side 13.4 cm. It is then straightened and bent again to form a rectangle of length 20 cm. What is the breadth of the rectangle?

Answer:_____ cm

5. Mary's monthly allowance is $120. She spends 30% on transport, 40% on food and saves the rest. How many months will it take for her to save $180?

Answer:_____months

For questions **6** to **18**, <u>show your working clearly</u> 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. Amy wanted to buy a bag which cost $95 before discount. There was a discount of 20% on the bag. How many such bags at the discounted price could she buy with $300?

Answer:_____[3]

7. Some stools were sold at 4 for $49.50. Each of these stools cost $13.60 when bought individually. Ali wanted to buy 47 such stools. How much would he have to pay for the stools?

Answer:_____[3]

8. Mr Lee used $2\frac{1}{3}$ pails of water to water his garden and twice that number of pails of water to bathe his dogs. Mrs Teo used twice the total number of pails of water that Mr Lee had used to wash her car. How many pails of water did both of them use altogether?
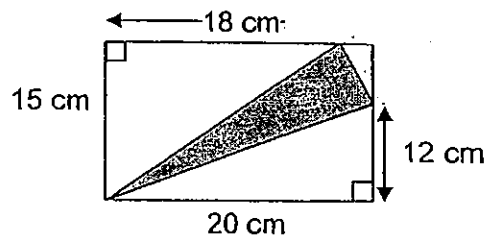
Answer:_____[3]

9. There are red, blue and green balls in a box. The ratio of the number of red balls to the number of blue balls was 4 : 5. The number of blue balls to the number of green balls was 7 : 3. Half the total number of balls was then given away and there were 312 balls left in the box. How many more blue balls than red balls were there at first?

Answer: _____[3]

10. 750 stray animals were captured last month. 46% of them were dogs, 34% were cats and the rest were rabbits and birds. If there were 80 more rabbits than birds, how many rabbits were there?

Answer:_____[3]

11. Find the area of the shaded part in the figure below.

Answer:_____[3]

12. The table below shows the entrance fee to an amusement park. Study the table carefully and answer the following questions.

Ticket Type	Entrance Fee Per Ticket ($)
Family Package (2 adults and 2 children below the age of 12)	160
Adult	60.50
Child (below the age of 12)	35
Senior Citizen (above the age of 60)	42.50

(a) Mr Rafi planned to bring his wife and three children to the amusement park. His children were aged nine, eleven and fourteen years respectively. What was the least amount of the entrance fees he had to pay?

(b) During a promotion, for every 10 senior citizen tickets purchased, there was a senior citizen ticket given free of charge. Mr and Mrs Tan, who were adult volunteers, planned to bring 22 senior citizens to the amusement park. How much would they have to pay for all the tickets?

Answer: (a)_____[2]

(b)_____[3]

7

13. A rectangular tank 55 cm long, 40 cm wide and 38 cm high was $\frac{3}{4}$ filled with water. The water was then used to fill up some bottles completely. The capacity of each bottle was 2 litres.

(a) How many bottles were filled completely?

(b) What was the amount of water left in the tank when all the bottles were filled completely?

Answer: (a)_____[2]

(b)_____[2]

8

14. Mrs Lim bought a luggage, a jacket and a pair of shoes. The jacket and the pair of shoes cost $232.10. The luggage and the jacket cost $560.60. The luggage cost 4 times as much as the pair of shoes. How much more did the luggage cost than the jacket?

Answer:_____[4]

15. Wenjie paid $270 for 3 soccer balls and 15 caps. If the cost of 5 caps was the cost of 1 soccer ball,

(a) find the cost of 1 cap.

(b) find the cost of 20 soccer balls.

Answer: (a)_____[3]

(b)_____[2]

16. Ben and Chris had a total of $1475 at first. After Ben spent $\frac{4}{7}$ of his money and Chris spent $145, Chris found that the amount of money he had left was $\frac{5}{6}$ of what Ben had left. How much more money had Ben than Chris at first?

Answer:_____[5]

17. A factory produced 20 000 paper flowers and plastic flowers a day. Each paper flower was sold for $1 and each plastic flower was sold for $1.20. The ratio of the amount of money earned after selling all the paper flowers to the amount of money earned after selling all the plastic flowers is 5 : 9. If the total amount of money earned was $22 400, how many paper flowers and how many plastic flowers were produced?

Answer: (a)_____ paper flowers [2]

(b)_____ plastic flowers [2]

18. 340 pupils had signed up for one of the three post examination activities namely swimming, cooking and pottery. 25% of them chose swimming, 35% chose cooking and the rest chose pottery. 20% of those who chose swimming were absent on that day. 25% of those who chose pottery had to switch their activity to cooking due to a clash in schedule

(a) How many pupils participated in the swimming activity in the end?

(b) How many pupils participated in the cooking activity that day?
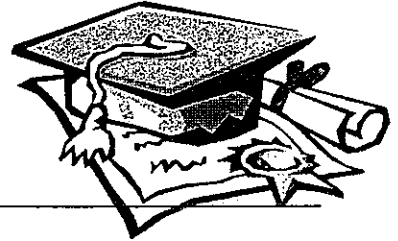
Answer: (a)_____[2]

(b)_____[3]
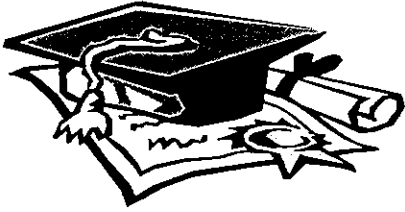
ANSWER SHEET

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
4	4	3	4	1	3	2	3	2	4	2	2	2	2	1

16)1040099　　17)$80　　18)3:6:13　　19)640cm3　　20)7 L 3 ml

21)105cm2　　22)54cm2　　23)9.82m　　24)$115　　25)1.5%

26)80　　27)5/12　　28)36cm2　　29)2.725kg　　30)$161 GST

Paper 2

1)10 + 4 = 14 (John 4 yrs later) 14 x 3 = 42 (father 4 yrs later) 42 + 14 = 56 years	2)Difference in boys→5u→20 1u→4 12u→48 boys and girls
3) ½ x 6 x 8 =24cm2	4)13.4 x 4 = 53.6 (total length of wire) 20 x 2 = 40 53.6 − 40 = 13.6 13.6 ÷ 2 = 6.8cm
5)100% - 30% - 40% = 30%(save per m) 30/100 x 120 = 36 180 ÷ 36 = 5 months	6)100% - 20% = 80%(what Amy paid) 80/100 x 95 = 76 300 ÷ 76 = 3R 72 ≈ 3 such bags
7)47 ÷ 4 = 11R3 49.50 x 11 = 544.50 13.60 x 3 = 40.80 544.50 + 40.80 = $585.30	8)2$_{1/3}$ = 7/3 (water his garden)Mr Lee 7/3 x 2 =14/3 = 4$_{2/3}$(bathe his dogs) 4$_{2/3}$ + 2$_{1/3}$ = 7(total pails Mr Lee used 7 x 2 = 14 (Mr Teo) 14 + 7 = 21 pails of water
9)56 more	10)100% - 46% - 34% = 20% (R+B) 20/100 x 750 = 150 (R+B) 150 − 80 = 70 70 ÷ 2 = 35 35 + 80 = 115 rabbits

11)A→ ½ x 15 x 18 = 135
    B→ ½ x 3 x 2 = 3
    C→ ½ x 12 x 20 = 120
    Total→15 x 20 = 300
    A+B+C→135 + 3 + 120 = 258
    D→300 − 258 = 42cm2
	12)a)160 + 60.50 = \$220.50
	    b)60.50 x 2 =121 (Mr and Mrs Tan)
	    42.50 x 20 =850(22 senior citizens
	    121 + 850 = \$971

13)a)31 bottles b)0.7 L	14)\$315.40 more

15)a)3s + 15c = 270
    1s = 5c
    3s = 15c
    15c + 15c = 270
    30c = 270
    1c = \$9
    b)1s = 5c
    1s = 45
    20s = \$900
	16)1475 − 145 = 1330
	    19u→1330
	    1u→70
	    6u + 8u = 14u
	    14u→980
	    5u→350
	    350 + 145 = 495
	    980 − 495 = \$485 more

17)a)5u + 9u = 14u
    14u→22400
    1u→1600
    5u→8000
    8000÷ 1 = 8000
    b)20000 − 8000 = 12000
	18)a)25/100 x 340 = 85 (s)
	    100% - 20% = 80%(those present
	    for swimming)
	    80% →80/100
	    80/100 x 85 = 68 pupils
	    b)35/100 x 340 = 119(those cooking
	    at first)
	    340 − 119 − 85 = 136(pottery at first
	    25/100 x 136 = 34 (those who
	    changed to cooking)
	    119 + 34 = 153 pupils