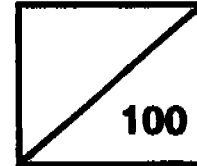




SA2

Rosyth School
Second Semestral Assessment 2005
Mathematics
Primary 5

Total



Name: _____

Class: Pr 5-_____ Register No. _____

Duration: 2 hr 15 min

Date: 26th October 2005

Parent's Signature: _____

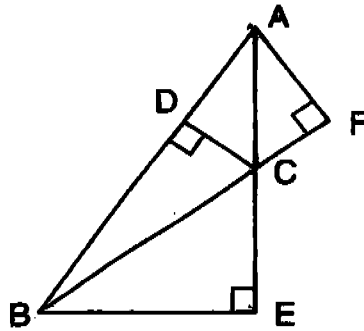
Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 sections: Section A, Section B and Section C.
4. For questions 1 to 15 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).
5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Section A	20	
Section B	30	
Section C	50	
Total	100	

* This paper consists of 21 pages altogether.

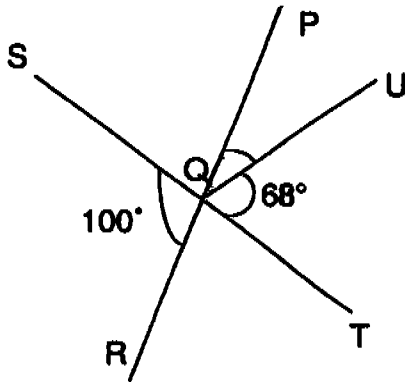
6.



In the above figure, if AC is the base of $\triangle ABC$, which of the following is the corresponding perpendicular height?

- | | |
|--------|--------|
| (1) AF | (2) BC |
| (3) BE | (4) CD |

7.



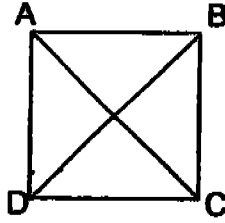
In the above figure, PQR and SQT are straight lines. $\angle RQS$ is 100° and $\angle TQU$ is 68° . Find $\angle PQU$.

- | | |
|----------------|-----------------|
| (1) 32° | (2) 42° |
| (3) 80° | (4) 168° |

8. Mr Tay lays 36 bricks per hour.
How many bricks will he lay in 9 hours?

- | | |
|---------|--------|
| (1) 324 | (2) 45 |
| (3) 27 | (4) 4 |

9.



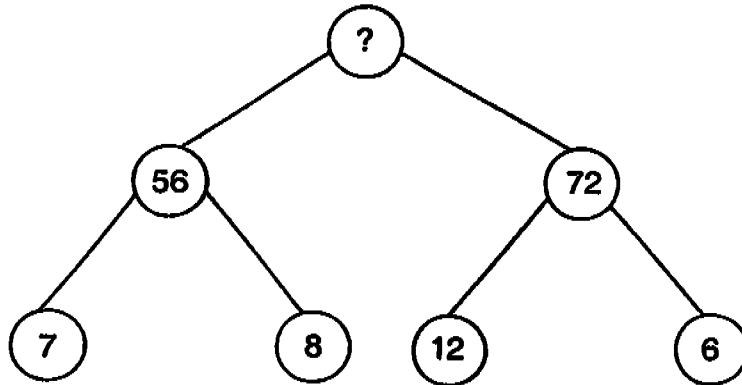
In the above figure, ABCD is a square.
Which line is perpendicular to AD?

- (1) AC
- (2) BC
- (3) BD
- (4) CD

10. What is the volume of a cube of side 5 cm ?

- (1) 10 cm^3
- (2) 15 cm^3
- (3) 25 cm^3
- (4) 125 cm^3

11.



What is the missing number in the circle above?

- (1) 16
- (2) 128
- (3) 792
- (4) 4 032

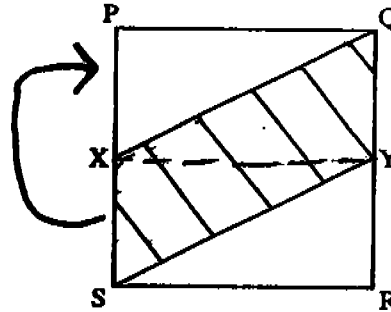
12. Points X and Y are mid-points of the square PQRS shown in the figure. What fraction of PQRS is shaded?

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

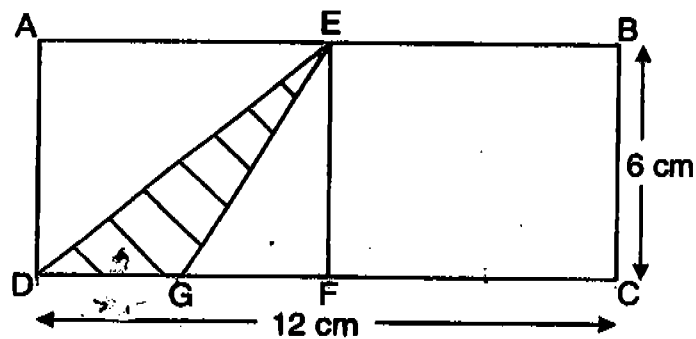
(2) $\frac{1}{2}$

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

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



- 13.



In the figure above, ABCD is a rectangle.

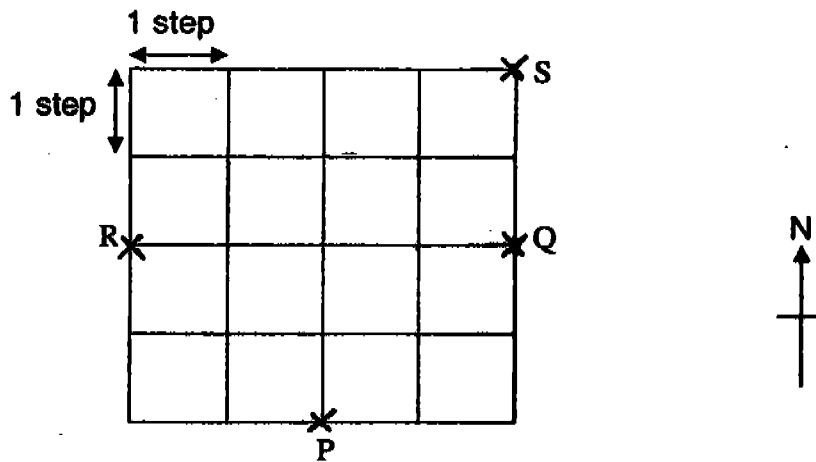
F is the mid-point of the line CD, and G is the mid-point of the line DF.

Find the area of the shaded part.

(1) 9 cm^2
 (3) 36 cm^2

(2) 18 cm^2
 (4) 72 cm^2

14.



In the grid above, Alice is at point P.
If she moves in the following order, at which point will she be in the end?

- a) north 3 steps
- b) east 1 step
- c) south 1 step
- d) east 1 step

- | | |
|-------|-------|
| (1) P | (2) Q |
| (3) R | (4) S |

15. Norman spent 80% of his pocket money.
If he spent \$8, how much pocket money did he have?

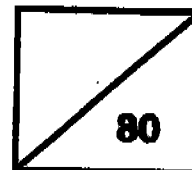
- | | |
|-------------|--------------|
| (1) \$6.40 | (2) \$10.00 |
| (3) \$64.00 | (4) \$100.00 |



Rosyth School
Second Semestral Assessment 2005
Mathematics
Primary 5

Name: _____

Subtotal



Class: Pr 5-_____ Register No. _____

Date: 26th October 2005

Parent's Signature: _____

BOOKLET B

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This booklet consists of 2 parts, Section B and C.
4. For questions 36 to 48 in Section C, show all relevant working in the spaces provided.
5. ANSWER ALL THE QUESTIONS.

Section B

For each question, write your answers in the spaces provided. Show your working clearly in the space below each question. Give your answers in the units stated. Questions 16 to 25 carry 1 mark each. Questions 26 to 35 carry 2 marks each. (30 marks)

16. Round off 47951 to the nearest hundred.

Ans: _____ (1m)

17. What is the value of $844 + (95 - 91) \div 4$.

Ans: _____ (1m)

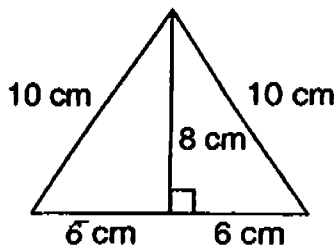
18. Find the value of $\frac{7}{8} \div 14$

Ans: _____ (1m)

19. How many quarters are there in $6\frac{1}{2}$?

Ans: _____ (1m)

20. Find the area of the triangle below.



Ans: _____ cm² (1m)

21. Henry had \$6.15. He bought a pencil for 25 cents. How much money had he left?

Ans: \$ _____ (1m)

22. Express 88% as a fraction in its simplest form.

Ans: _____ (1m)

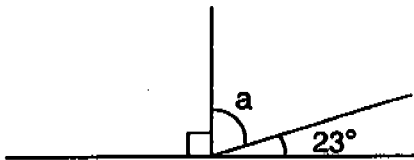
23. Express 24 min as a percentage of 1 hour.

Ans: _____ % (1m)

24. If $\frac{1}{3}$ of a number is 14, what is thrice the number?

Ans: _____ (1m)

25. In the figure below, AOB is a straight line. Find angle 'a'.



Ans: _____ ° (1m)

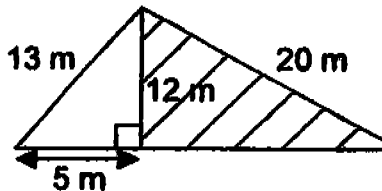
26. Mr Tay saves \$76 per week and Mrs Tay saves \$34 per week. How many weeks will it take them to save \$3300?

Ans: _____ weeks (2m)

27. In a certain school, 632 pupils sat for the PSLE.
The ratio of the number of passes to the number of failures was 7:1.
How many pupils passed the PSLE?

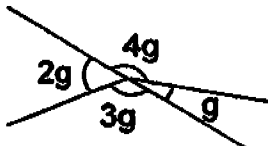
Ans: _____ (2m)

28. The perimeter of the figure is 54 m. Find the area of the shaded part.



Ans: _____ m² (2m)

29. Find the value of 'g' in the figure below



Ans: _____ ° (2m)

30. Helen made 7 pizzas. She cut each pizza into 6 equal pieces. She sold all the pizzas and collected \$67.20. How much did she sell each piece of the pizza for?

Ans: \$ _____ (2m)

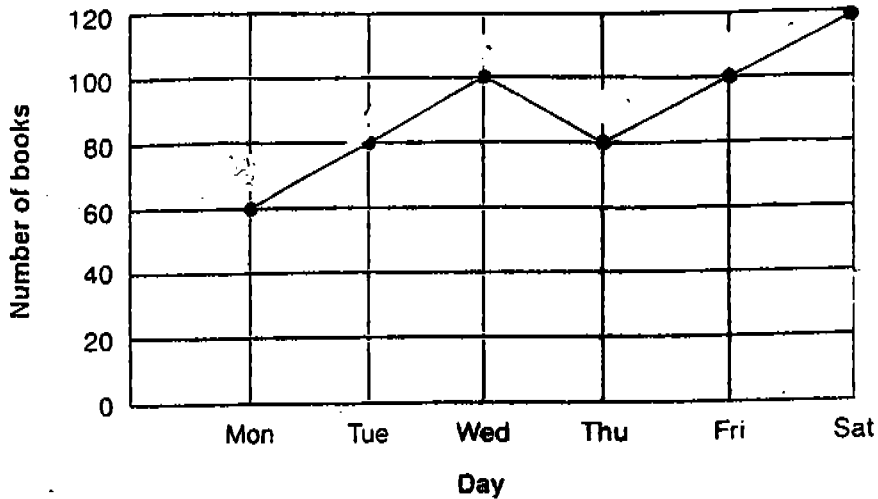
31. The table shows the postage rates for sending parcels to Europe.

Mass not over	Postage
20 g	70 ¢
50 g	\$1.20
Per additional step of 10g	\$0.20

Find the postage of a parcel with a mass of 92g.

Ans: \$ _____ (2m)

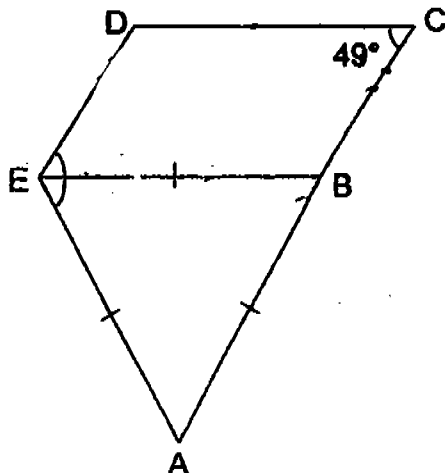
32. The graph below shows the number of books sold in a bookstore during a week. Study it and use it to answer question 32.



If the average cost of each book was \$3, what was the total amount received by the store owner during the week?

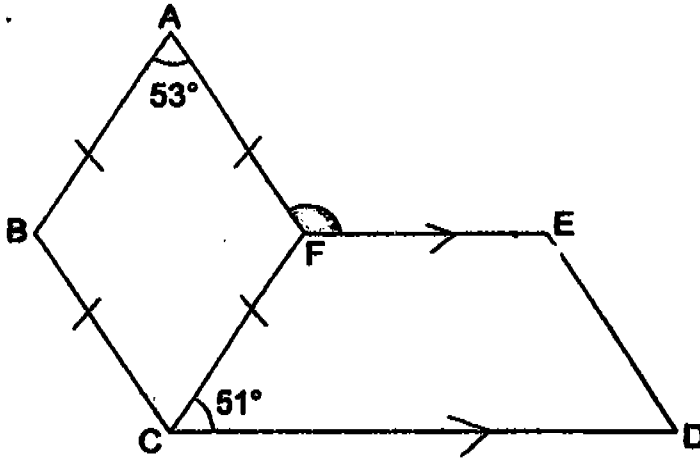
Ans: _____ (2m)

33. The figure, not drawn to scale, is made up of a parallelogram DCBE and an equilateral triangle EBA. Angle DCB is 49° . What is the value of angle AED?



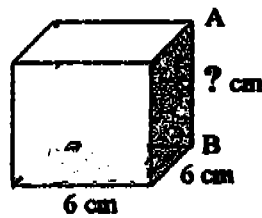
Ans: _____ $^\circ$ (2m)

34. The figure, not drawn to scale, is made up of a rhombus $ABCF$ and a trapezium $FCED$. Find the value of angle AFE .



Ans: _____ $^\circ$ (2m)

35. The volume of the cuboid is 252 cm^3 . Find the length of AB .



Ans: _____ cm (2m)

Section C (50 marks)

For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.

The marks for each question or part-question is shown in brackets () at the end of each question.

36. The average length of three ropes is 36 cm. The first rope is 42 cm long. The second rope is twice the length of the third rope. What is the length of the third rope?

Ans : _____ (3m)

37. Look at the three digits below.

4

7

8

- (a) List all the 3-digit (even) numbers that can be formed using the above digits. For each even number, use each digit once only.
- (b) Find the difference between the largest number and the smallest number you have listed.

Ans : (a) _____ (1m)

(b) _____ (2m)

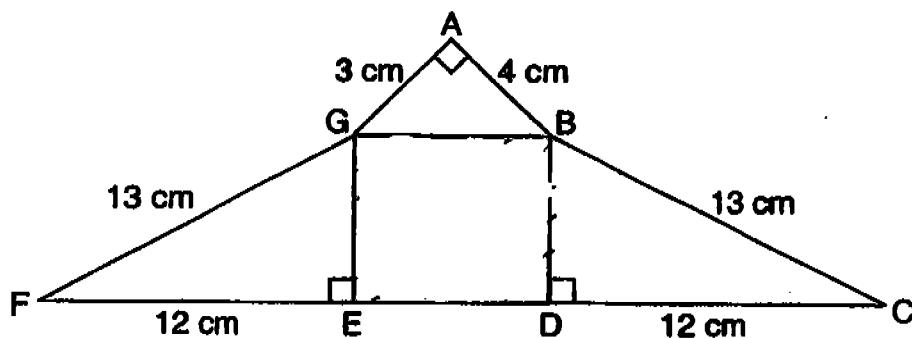
38. Joe and his sister shared some money. $\frac{1}{3}$ of Joe's money is $\frac{3}{5}$ of his sister's share. If the difference in their share of money is \$52, how much money did Joe have?

Ans : _____ (3m)

39. In a concert, the ratio of the numbers of adults to the number of children is 3:4. If 60 more adults join in the concert, the number of adults will be twice the number of children. How many children are in the concert?

Ans : _____ (3m)

40. The area of square GBDE is 25 cm^2 . FC is a straight line.
Find the area of the figure.



Ans : _____ (3m)




41. 200 bottles of water with a capacity of 500 ml each are poured into a tank. The tank is 50 cm by 35 cm by 60 cm . How much more water is needed to fill the tank completely?

Ans : _____ (3m)

42. Tom creates a pyramid structure by placing some wooden blocks in layers.

(a) How many wooden blocks are needed for layers 4 and 5?

(b) How many wooden blocks does Tom need to make a Layer-10 pyramid?

				?	?
Layer	1	2	3	4	5
Number of Wooden Blocks	1	3	6	(a)	(a)

Ans : (a) Layer 4: _____ (1m)

(a) Layer 5: _____ (1m)

(b) Layer 10: _____ (2m)

43. Mr Lim spent $\frac{5}{9}$ of his salary on transport and food every month. He saved $\frac{3}{5}$ of the remaining monthly salary and gave his wife the rest of the money. Mr

Lim managed to save \$11 520 in a year.

(a) How much did Mr Lim give his wife every month?

(b) How much is Mr Lim's monthly salary?

Ans : (a) _____ (2m)

(b) _____ (2m)

44. The ratio of the number of \$10 notes and \$2 notes Peter had was 11:5. Peter exchanged 20 pieces of \$10 notes for \$2 notes. He had an equal number of \$10 and \$2 notes after the exchange. What was the total value of \$10 and \$2 notes Peter had?

Ans : _____ (4m)

45. Mr Ong kept some cows, chickens, ducks and sheep in his farm. $\frac{1}{3}$ of the animals are cows. The number of chickens was $\frac{2}{5}$ the number of ducks. The number of ducks was $\frac{3}{4}$ that of the sheep. If there were 120 sheep,

(a) how many animals did Mr Ong have in his farm altogether?

(b) what fraction of the animals were ducks?

(Give your answer in the simplest form.)

Ans : (a) _____ (3 m)

(b) _____ (2 m)

46. A toy car and a book cost \$10.20. Three books and four staplers cost \$26.60. The cost of one toy car is twice that of a stapler. Find the total cost of one stapler and one book.

Ans : _____(5m)

47. Meili ordered 500 apples and oranges. 40% of them were apples. The ratio of the number of red apples to green apples is 5:3. 20% of the oranges were given away. How many more oranges than green apples were there now?

Ans : _____ (5m)

48. Ramad had 95 coins in his coin box. There were 10-cent coins, 20-cent coins and \$1 coins. The number of \$1 coins was twice that of the number of 10-cent coins. The value of all the coins was \$41.50. Find the number of each type of coins.

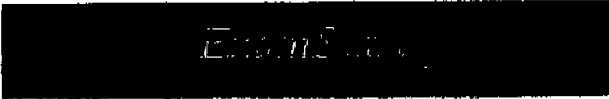
Ans : Number of 10-cent coins
Number of 20-cent coins
Number of \$1 coins
(5m)

End of Paper
Please check your work carefully.

SAT

Rosyth Primary School

Primary 5 Maths SA2 Exam (2005)



Answer Sheets

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

16. 48000

17. 845

18. $\frac{1}{16}$

19. 26

20. 48

21. 5.90

22. $\frac{22}{25}$

23. 40

24. 126

25. 67

26. 30

27. 553

28. 96

29. 36

30. 1.60

31. \$2.20

32. \$1620

33. 109

34. 104

35. 7

36. 24cm

37. a) 478, 748, 784, 874 b) 396

38. \$117

39. 48

40. 91cm²

41. 5000 ml

42. a) 10 b) 15 c) 55

43. a) \$640 b) \$3600

44. \$2400

45. a) 369 b) $\frac{10}{21}$

46. \$8.20

47. 165

48. 15, 50, 30