NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2005

PRIMARY 4

MATHEMATICS

TIME: 1 HOUR 45 MINUTES

Section A	/ 40
Section B	/ 40
Section C	/ 20

Total:	/100

EXCELLENT

Name: _____ (   )

Class: Primary 4 (   )

Parent's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

SHOW ALL WORKINGS IN THE SPACES PROVIDED.

Questions 1 to 20 carry two 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.

(Total: 40 marks)

1. What is the sum of the value of the digits '3' and '6' in 35 628?

    (1) 36
    (2) 306
    (3) 3 600
    (4) 30 600   (   )

2. Which one of the following is the best estimate for 2 557 × 688?

    (1) 2 500 × 600
    (2) 2 500 × 700
    (3) 2 600 × 600
    (4) 2 600 × 700   (   )

3. The least number of marbles that can be shared equally among 2, 3 or 6 boys is _____.

    (1) 6
    (2) 12
    (3) 18
    (4) 36   (   )

4. Find the sum of all the **odd** factors of 30.

    (1) 24
    (2) 48
    (3) 54
    (4) 78   (   )

1

5. What is the difference between the quotient and the remainder of 4 986 ÷ 7?

   (1) 698   (2) 710
   (3) 712   (4) 714   (   )

6. Joe saves $ 212 every month. How much does he save in a year? Give your answer to the nearest ten dollars.

   (1) $ 2 500   (2) $ 2 540
   (3) $ 2 544   (4) $ 2 550   (   )

7. A is $\frac{3}{11}$. B is $\frac{2}{11}$ more than A.

   Which one of the following statements is true?

   (1) A is $\frac{1}{11}$ more than B.

   (2) The value of B is $\frac{1}{11}$.

   (3) The sum of A and B is $\frac{5}{11}$.

   (4) The difference between A and B is $\frac{2}{11}$.

                                                                   (   )

8. $\frac{9}{14} - \frac{1}{7} = \frac{1}{\square}$

   What is the missing denominator?

   (1) 7   (2) 2
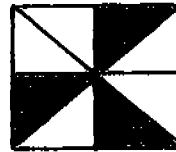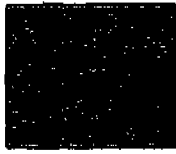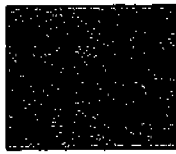   (3) 8   (4) 14   (   )

2

9. Write the correct mixed number for the diagram below.

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

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

10. 13 quarters is the same as _____.

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

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

11. What is $\frac{4}{9}$ of 27?

(1) 9   (2) 12
(3) 3   (4) 36   (   )

12. What fraction of the following set is shaded?

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

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

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

(4) $\frac{8}{8}$

(   )

13. The graph below shows the height of 5 boys. Study it carefully and answer the question below.
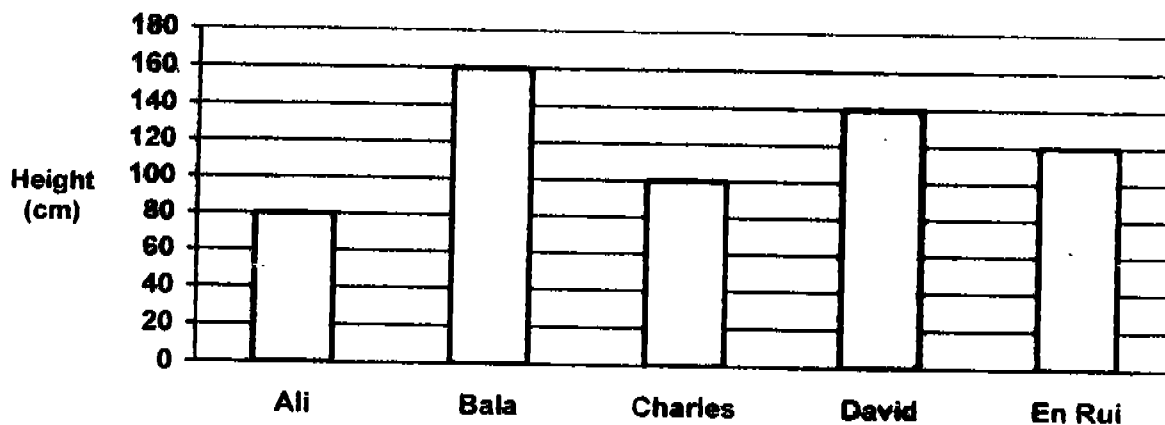
En Rui is 40 cm taller than _____.

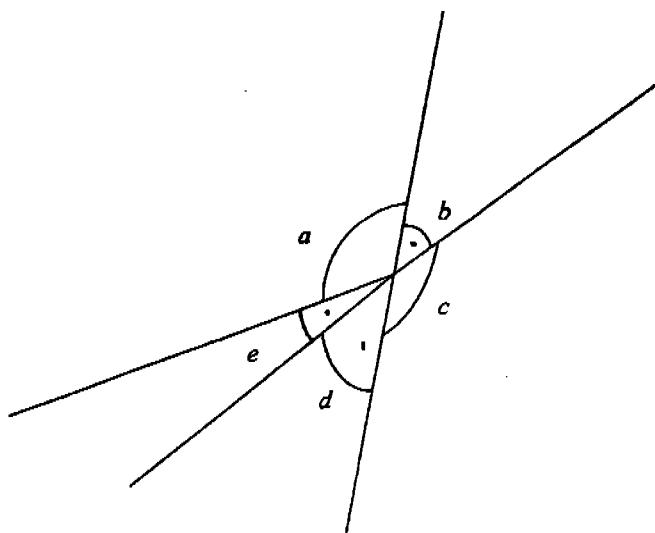(1) Ali

(2) Bala

(3) Charles

(4) David

(   )

4

14. The figure below is not drawn to scale. How many angles are smaller than a right angle?

(1) 5   (2) 2
(3) 3   (4) 4   (   )

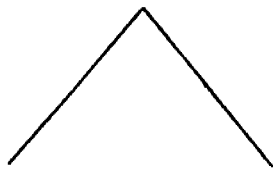15. How many right angles make 540°?

(1) 6   (2) 9
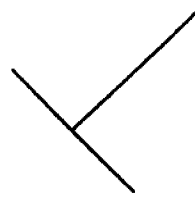(3) 3   (4) 12   (   )

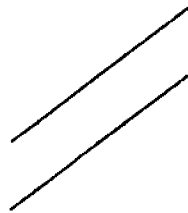16. Which of the following is a pair of perpendicular lines?

(1)

(2)

(3)

(4)

( )

17. Which of the following letters has only one pair of parallel lines?

(1) T

(2) E

(3) F

(4) L

( )

18. Find the perimeter of a square which has an area of 36 cm².

(1) 12 cm

(2) 18 cm

(3) 24 cm

(4) 36 cm

( )

19. The figure below is not drawn to scale. What is the perimeter of the figure?

(1) 56 cm   (2) 68 cm
(3) 88 cm   (4) 104 cm   ( )

20. The figure below is not drawn to scale. Find the area of the shaded parts of the figure below.

(1) 10 cm^2 (2) 16 cm^2
(3) 20 cm^2 (4) 32 cm^2 ( )

Questions 21 to 40 carry 2 marks each. Write your answers in the blanks provided.

(Total: 40 marks)

21. Complete the number pattern below.

6, 18, 8, 24, 14, _____

Answer:_____

22. The sum of 3 768 and 7 509 when rounded off to the nearest hundred is _____.

Answer:_____

23. How many multiples of 3 are there between 20 and 50?

Answer:_____

24. The highest common factor of 16, 24 and 32 is _____.

Answer:_____

25. Samy made some kites from Monday to Wednesday. Each day he made twice as many kites as the previous day. Over the 3 days, he made 350 kites. How many kites did he make on the third day?

Answer:_____

26. What is the greatest 3-digit whole number you can multiply by 5 and get a product of less than 1 950?
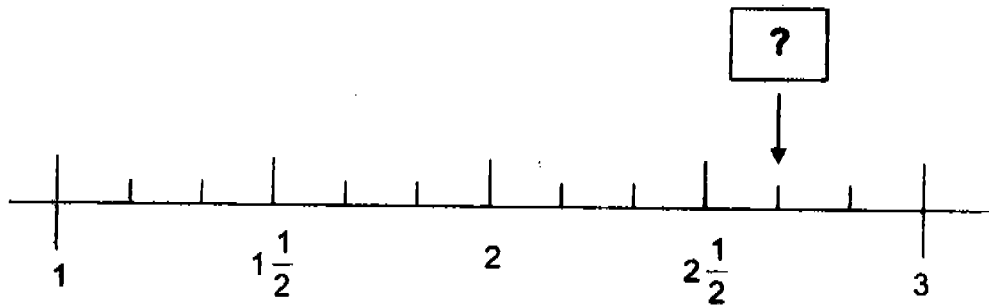
Answer:_____

27. A red ribbon is $\frac{1}{4}$ m long. A pink ribbon is $\frac{1}{2}$ m longer than the red ribbon while the yellow ribbon is $\frac{1}{8}$ m shorter than the pink ribbon. Find the length of the yellow ribbon.

Answer:_____ m

28. A bottle was $\frac{3}{4}$ full of water. Mr Tan drank some water and the bottle became $\frac{5}{12}$ full. What fraction of the water did Mr Tan drink? Give your answer in its simplest form.
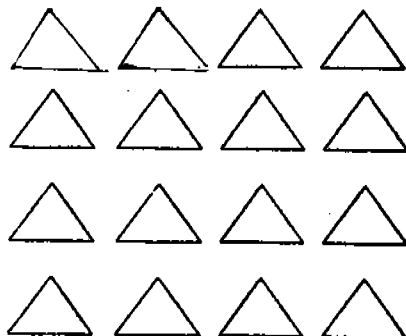
Answer:_____

29. What is the missing **improper fraction** in the box?

Answer:_____

30. Shade $\frac{1}{8}$ of the following set.

31. $\frac{5}{6}$ of a rope measures 60 cm. Find the length of the rope.

Answer:_____ cm

Study the table below carefully and answer Q32 and Q33.

32. There are 21 boys and 19 girls in class 4B. 14 boys are swimmers and 11 girls are non-swimmers. Complete the following table by filling in the blanks (a), (b), (c) and (d).

	Number of boys	Number of girls	Total
Swimmers	14	(b)	(c)
Non-swimmers	(a)	11	(d)
Total	21	19	40

33. A new girl joins the class and she is a swimmer. What will be the difference between the total number of swimmers and non-swimmers now?
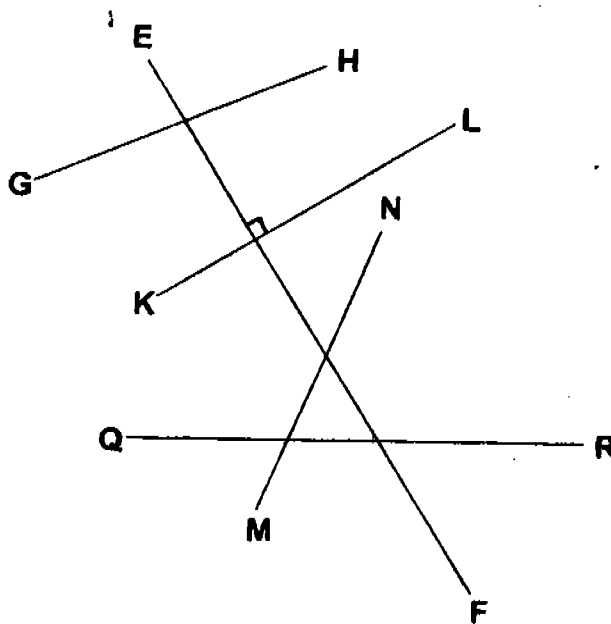
Answer:_____

34. Using the dot on the line AB given below, draw another line to form an angle which is <u>smaller than</u> a right-angle. Mark and label the angle as ∠a.
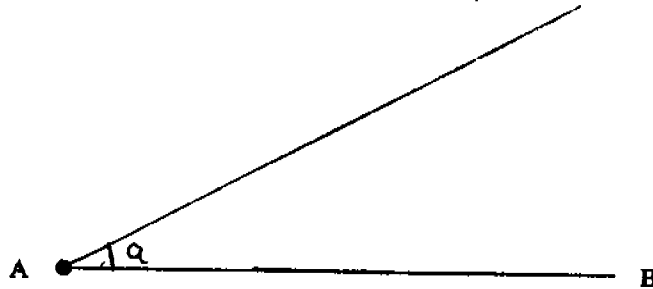
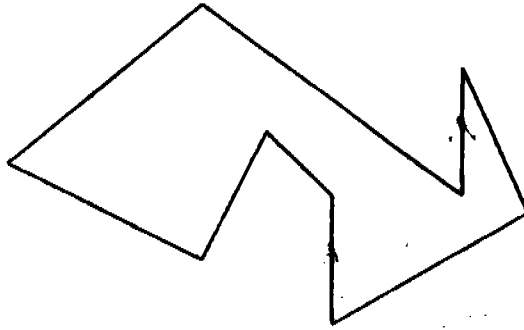35. Find the angle moved by the minute hand from 12 noon to 12.45 p.m..

Answer:_____
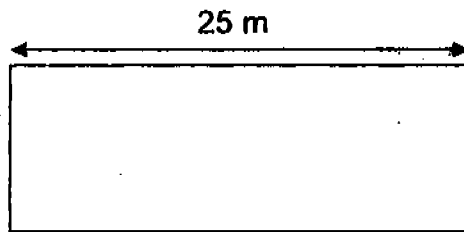
36. Which one of these lines is perpendicular to EF?

Answer:_____

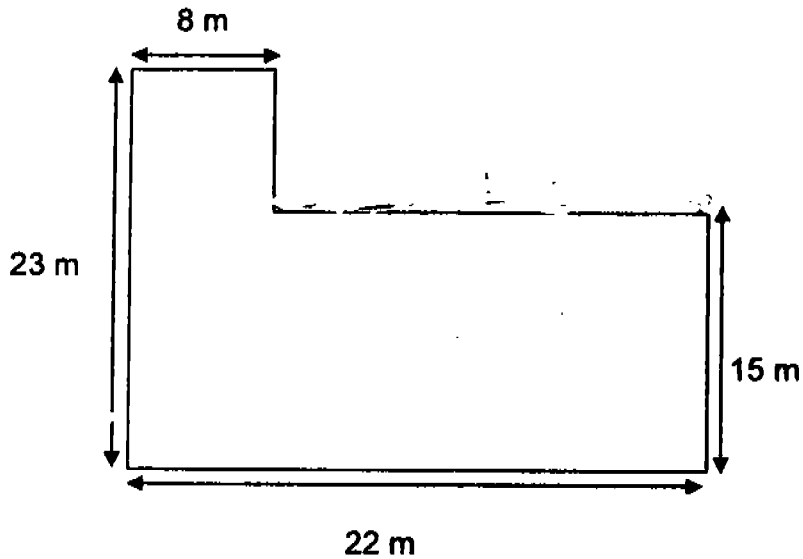37. How many pair(s) of parallel lines is/are there in this figure?

Answer:_____

38. The perimeter of this rectangle is 70 m. Find its area.

25 m

Answer:_____m²

39. Mr Tan wants to cement the floor of his swimming pool as shown below. If it costs $ 8 to cement 1 m² of the floor, how much must he pay to cement the entire floor of the swimming pool?
(All lines meet at right angles)

Answer: $ _____

40. I have two numbers. These two numbers are between 10 and 20. When I multiply them, I get 210. When I add them up, I get 29. What are the two numbers?

Answer: _____ and _____

Questions 41 to 45 carry 4 marks each. Do these word problems carefully.
Show your working in the space provided.

(Total: 20 marks)

41.　There were some marbles in a box. Anne took $\frac{1}{5}$ of them and Betty took $\frac{2}{3}$ of them. There were 70 marbles left. How many marbles were there in the box at first?

42.　In a farm, there was a total of 36 chickens and cows with a total of 98 legs. How many cows were there in the farm?

43. The bar graph below shows the favourite sports of a group of students.
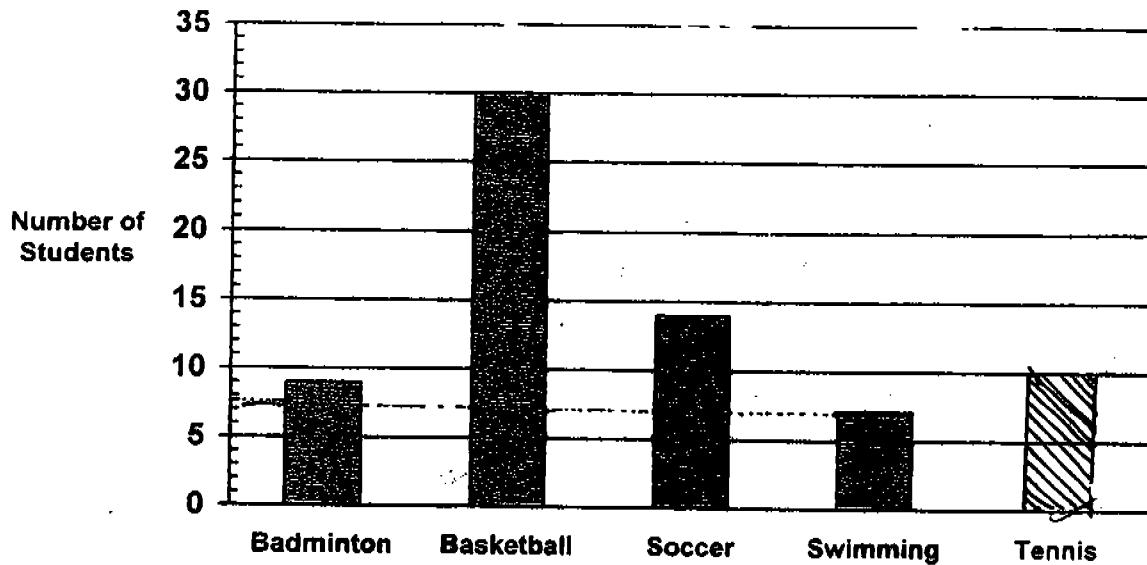
(a) The number of students who chose basketball as their favourite sport is three times as many as the number of students who chose tennis. Complete the bar graph above.

(b) Which sport was chosen by exactly $\frac{1}{5}$ of the total number of students.

44. Use the figure below to answer the following question.

11cm

11cm
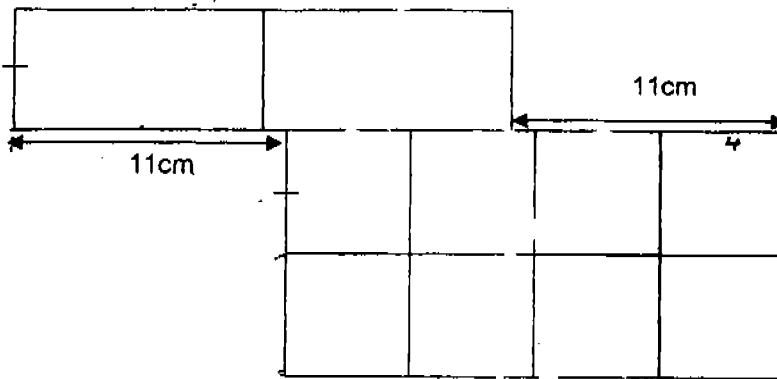
The figure is made up of 2 identical rectangles and 8 identical squares.
The side of the square is equal to the breadth of the rectangle.
The length of the rectangle is twice its breadth.
The total area of the figure is 300 cm².
Find the perimeter of the figure.

i7

45. Box A had 90 marbles. Box B had $\frac{7}{9}$ as many marbles as Box A. Minghua transferred $\frac{1}{5}$ of the marbles from Box A to Box B. Then he transferred some marbles from Box B to Box A so that the 2 boxes have the same number of marbles. How many marbles did Minghua transfer from Box B to Box A?

☺ *End of Paper* ☺
Please Check Carefully

Setters:
Mdm Adelin Toh
Ms Yee Ming Ming

Nanyang Primary School

Primary 4 Maths SA1 Exam (2005)

Exam Sheet
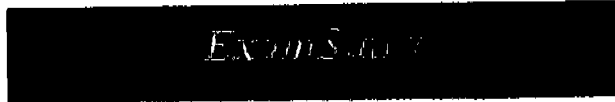
Answer Sheets

Q1	Q2	Q3	Q4	Q5
4	4	1	1	2
Q6	Q7	Q8	Q9	Q10
2	4	2	2	3
Q11	Q12	Q13	Q14	Q15
2	2	1	3	1
Q16	Q17	Q18	Q19	Q20
2	3	3	4	2

21. 42, 32

22. 11, 300

23. 10
24. 8
25. 200
26. 389

27. $\dfrac{5}{8}$

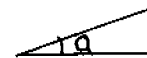28. $\dfrac{1}{3}$

29. $\dfrac{8}{3}$

30.

31. 72cm

32.

	b) 8	c) 22
a) 7		d) 18

33. 5

34.

35. 270
36. KL
37. 1

38. 250m^2

39. $3152

40. 14 and 15

41. 525 marbles
42. 13 cows

43a)   14

43b)   The sport was soccer.

44)   The perimeter is 92cm

45)   He transferred 8 marbles from Box to Box A