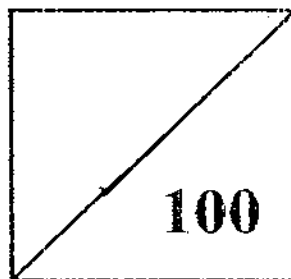# RULANG PRIMARY SCHOOL

A Gallery of Scholars, A Vibrant Community of Wholesome Individuals

Established since 1930

Name   : _____ (   )
Level   : Primary Two
Class   : Primary 2 ____ (p.m.)
Date   : 27 February 2009
Setter   : Mr Surajkumar Natchinarkinian

DIAGNOSTIC ASSESSMENT
2009
MATHEMATICS

100

TOTAL TIME: 1 hour 30 min
45 questions
100 marks

- **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**
- **READ ALL THE INSTRUCTIONS CAREFULLY.**
- **ANSWER ALL THE QUESTIONS.**

Section A (20 × 2 marks)

For each question, four options are given. One of them is the correct answer. Make your choice and write its number (1, 2, 3 or 4) in the bracket provided.

1. 6 hundreds and 9 ones is written as $\boxed{?}$.

    What is the missing number in the box above?

    (1) 69   (2) 609

    (3) 690   (4) 691   (   )

2. The digit '8' in 850 stands for $\boxed{?}$.

    What is the missing number in the box above?

    (1) 8   (2) 80

    (3) 800   (4) 8000   (   )

3. $768 = \boxed{?} + 60 + 8$

    What is the missing number in the box above?

    (1) 7   (2) 70

    (3) 700   (4) 800   (   )

4. What is the greatest 3-digit number that can be formed using any 3 of the 4 cards below?

    $\boxed{7}$ $\boxed{5}$ $\boxed{9}$ $\boxed{9}$

    (1) 579   (2) 799

    (3) 995   (4) 997   (   )

5. Jack had 76 stamps at first. He bought 23 more stamps from a bookshop. How many stamps did he have altogether?

    (1) 53   (2) 59

    (3) 93   (4) 99   (   )

2

6. 75 more than 613 is [?].

What is the missing number in the box above?

(1) 678   (2) 688
(3) 778   (4) 788   ( )

7. 200 + 300 is greater than [?].

What is the missing number in the box above?

(1) 400   (2) 500
(3) 600   (4) 900   ( )

8. 30 tens and 30 ones is the same as [?].

What is the missing number in the box above?

(1) 300   (2) 303
(3) 330   (4) 333   ( )

9. [***] + [***] = 300

What is the value of [***]?

(1) 50   (2) 100
(3) 150   (4) 200   ( )

10. What is the difference between 492 and 321?

(1) 117   (2) 171
(3) 813   (4) 833   ( )

11. The difference between 516 and [?] is 381.

What is the missing number in the box above?

(1) 135   (2) 137
(3) 877   (4) 897   ( )

12. 617 [?] 438 = 97 + 82

What is the missing sign in the box above?

(1) +   (2) ×
(3) −   (4) ÷   (   )

13. 7 tens more than [?] is 989.

What is the missing number in the box above?

(1) 829   (2) 909
(3) 919   (4) 929   (   )

14. The sum of two numbers is 250. If one of the numbers is 149, what is the other number?
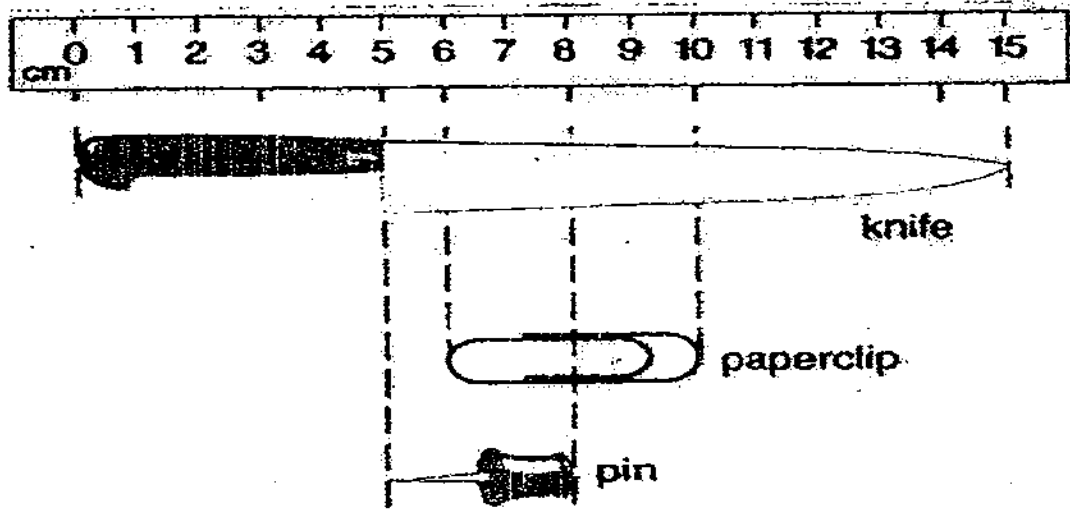
(1) 401   (2) 399
(3) 111   (4) 101   (   )

15. 125 cm + 65 cm = [?] cm

(1) 175   (2) 180
(3) 190   (4) 195   (   )

16. A table is 165 cm high. A bookshelf is 280 cm high. How much higher is the bookshelf than the table?

(1) 115 cm   (2) 125 cm
(3) 130 cm   (4) 445 cm   (   )

Refer to the picture below and answer questions 17 to 19.

17. What is the total length of the pin and the paper clip?

    (1) 5 cm   (2) 7 cm

    (3) 3 cm   (4) 4 cm   (   )

18. How much longer is the knife than the paper clip?

    (1) 15 cm   (2) 11 cm

    (3) 10 cm   (4) 4 cm   (   )

19. How much longer is the knife than the pin?

    (1) 7 cm   (2) 12 cm

    (3) 3 cm   (4) 15 cm   (   )

20. There are 632 men and 524 women at a concert. How many more men than women are there?

    (1) 108   (2) 112

    (3) 1112   (4) 1156   (   )

For each of the following questions, write the correct answer in the box provided.

21. Write 815 in words.

┌───┐
│   │
│   │
└───┘

22. What value does the chart show?

100 100	10 10	1 1 1
100	10 10	1 1 1
100 100	10 10	1 1 1

┌──────────────┐
│   │
│   │
└──────────────┘

6
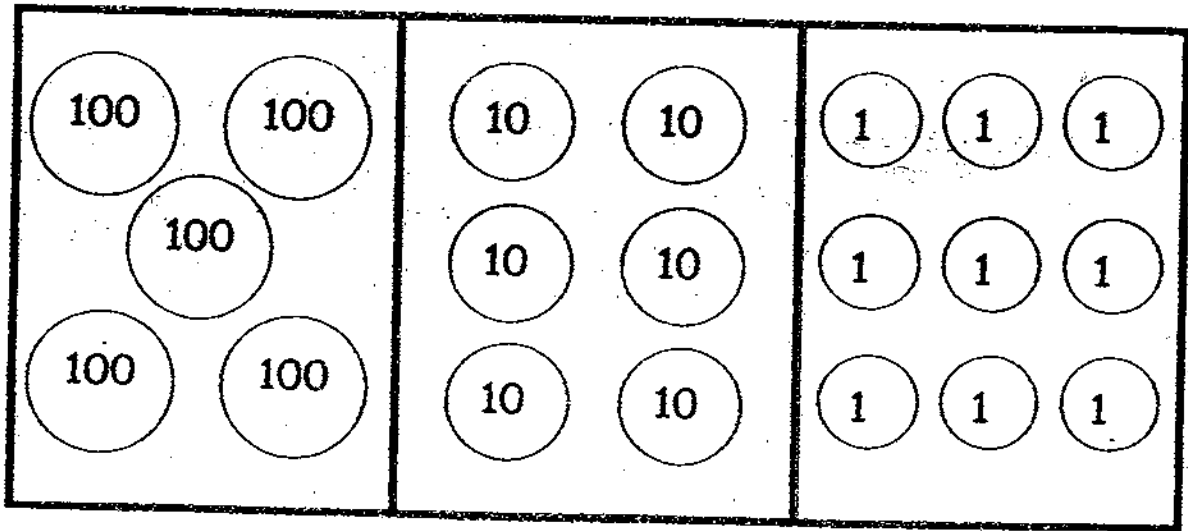
23. Which is the biggest number?

| 696 | 766 | 666 | 769 |

[   ]

24. Arrange the following numbers from the greatest to the smallest.

747   774   744   77

[   ] ⇒ [   ] ⇒ [   ] ⇒ [   ]

Greatest   Smallest

25. $18 = 10 + 2 + 2 + $ [?]

What is the missing number in the box?

[   ]

26. Solve the sum below.

```
      4   2   1
  +   1   6   8
  _____
  [              ]
  _____
```

27. Cross out the box with the smallest value.

| 593 + 159 | 435 + 297 | 75 + 486 |

28. | ? | − 364 = 456

What is the missing number in the box above?

29. △ + △ = 400

△ + ○ = 600

What is the value of ○ ?

30. If I subtract 137 from 578, what will I get?
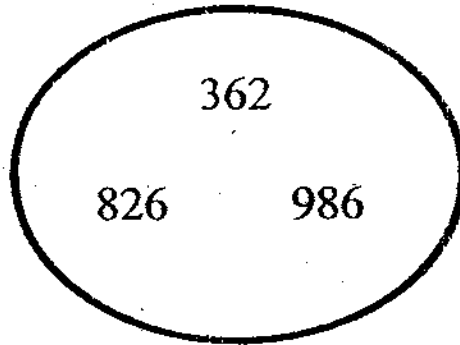
31. | ? | + 568 = 751

What is the missing number in the box above?

32. Rita has 95 stickers. John has 36 fewer stickers than Rita. How many stickers does John have?

| | stickers

33. What is the difference between the biggest and the smallest numbers in the oval below?

362

826   986

| |

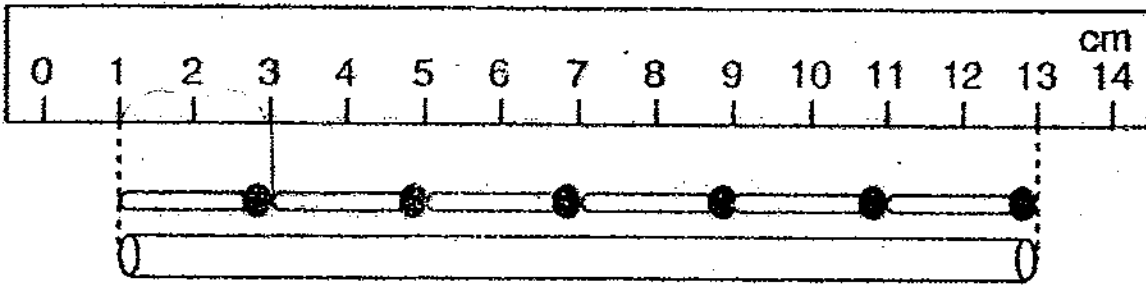For questions 34 and 35 fill in the blanks with "cm" or "m".

34. The length of a car is about 3 | | long.

35. The length of a pen is about 15 | | long.

Study the diagram carefully and answer questions 36 and 37.


36. What is the length of a matchstick?

[ ] cm

37. What is the difference in length between the rod and each matchstick?

[ ] cm

38. The length of a textbook is 20 cm long. The length of a notebook is 5 cm long. How many notebooks are needed to form the same length as 1 textbook?

[ ] notebooks

39. Alan uses some toothpicks to make two identical squares as shown below. If he wants to add 2 more squares, how many more toothpicks does he need?
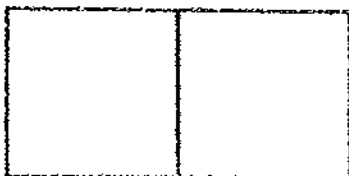
[ ] toothpicks

40. I am a 2-digit odd number. I am more than 25 but less than 40. The sum of my 2-digit number is 8. What number am I?

?	?

Answer each question in the space provided. Show your working clearly as marks will be awarded for relevant statements and correct answers.

41. Sandy has 3 pieces of cloth, A, B and C. Cloth A is 6 m long. Cloth B is 2 m longer than Cloth A. Cloth C is 2 m shorter than Cloth A. What is the total length of the 3 pieces of cloth?

42. The table below shows the marks Simon scored in his class tests. He scored 18 more marks for his Mathematics than his English.

English	72
Mathematics	
Chinese	87

(a) How many marks did Simon score in his Mathematics test?

(b) What was the total mark he scored for the three subjects?

43. Mrs Chia has 245 fiction books in her home library. She has 98 more fiction books than comic books. How many books does she have in all?
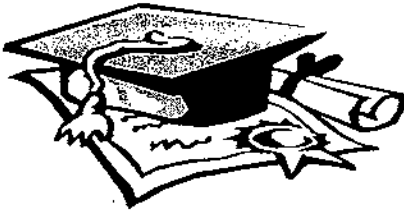
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44. Samuel was in a queue to buy a drink. There were 5 pupils in front of him and 3 pupils behind him. How many pupils were there in the queue?

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45. Rina is thinking of a 3-digit number. She gets the hundreds digit by adding the tens digit and the ones digit. The ones digit is 1 more than the tens digit. If the tens digit is 2, what is the number Rina is thinking of?

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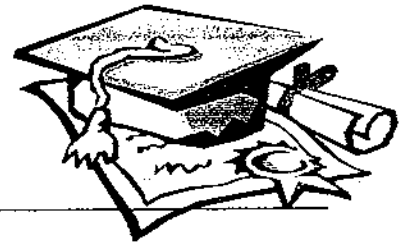
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	3	3	4	4	2	1	3	3	2	1	3	3	4	3	1	2

Q18	Q19	Q20
2	2	1

21)eight hundred and fifteen   22)569   23)769   24)774→747→744→77

25)4   26)589   27)75+486   28)820   29)400   30)441   31)183

32)59   33)624   34)m   35)cm   36)2cm   37)10cm   38)4   39)6   40)35

41)6+2=8
   6-2=4
   8+6+4=18
The total length of the 3 piece of cloth is 18m.

42)a)72+18=90
Simon score 90 mark in his mathematics test.
   b)72+90=162
      162+87=249
He score 249 marks for the three subjects.

43)245-98=147
   147+245=392
She have 392 books in all.

44)6+3=9
There are 9 people in the queue.

45)Rina is thinking of the number 523.