NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2009
MATHEMATICS
PRIMARY 4

Time: 1 h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class in the blanks provided.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Marks Obtained

Section	Maximum Marks	Actual Marks
A	40	
B	40	
C	20	
Total	100	

Name: _____ (   )

Class: Pr 4 _____

Date: 13 May 2009

Parent's Signature: _____

SECTION A (20 x 2 marks)
Questions 1 to 20 carry 2 marks each.
Of the four options given, only one is correct. Choose the correct answer
(1, 2, 3 or 4) and write its number in the brackets provided.

1.   The digit 6 in 60 070 stands for _____.

     (1)   6

     (2)   600

     (3)   6 000

     (4)   60 000   (   )

2.   The numeral for eighty-five thousand, eight hundred and five is _____.

     (1)   8 585

     (2)   80 585

     (3)   85 805

     (4)   85 850   (   )

3.   The first two common multiples of 4 and 6 are _____.

     (1)   6 and 12

     (2)   8 and 24

     (3)   12 and 18

     (4)   12 and 24   (   )

4.   There are _____ hundreds in 20 000.

   (1)   20

   (2)   2

   (3)   200

   (4)   2 000

                                                    (   )

5.   Kate has $120. She has $75 more than Peter. How much money do they have altogether ?

   (1) $315

   (2) $270

   (3) $195

   (4) $165

                                                    (   )

6.   Which of the following has 9 as a factor ?

   (1)   65

   (2)   74

   (3)   81

   (4)   92

                                                    (   )

7. $3\frac{2}{5}$ expressed as an improper fraction is _____.

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

  (2) $\frac{11}{5}$

  (3) $\frac{17}{5}$

  (4) $\frac{32}{5}$ (   )

8. Which of the following fraction is nearest to 1 ?

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

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

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

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

9. A packet of sugar has a mass of $\frac{5}{6}$ kg. It is $\frac{1}{12}$ kg heavier than a packet of salt. What is the mass of the packet of salt ?

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

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

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

  (4) $\frac{11}{12}$ kg   (   )

10. Which of the following is **NOT** equal to $\dfrac{9}{12}$?

   (1) $\dfrac{6}{8}$

   (2) $\dfrac{12}{16}$

   (3) $\dfrac{6}{10}$

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

   (   )

11. Look at the figure below, how many angles **inside** the figure are <u>smaller than</u> a right angle ?
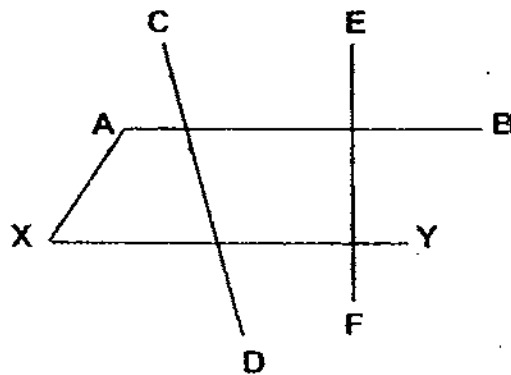

   (1)   5

   (2)   2

   (3)   3
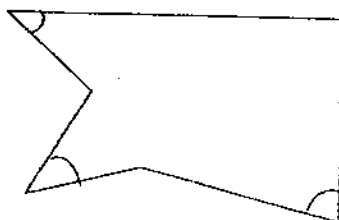
   (4)   4

   (   )

4

12. Which one of the following figures is $\frac{1}{3}$ shaded?

(1)

(2)

(3)

(4)

(   )

13.

In the figure above line XY is perpendicular to line _____.

(1)   AB

(2)   CD

(3)   EF

(4)   XA

(   )

5

14. In the figure below, ABCD is a rectangle and $\angle DAC = 36°$. Find $\angle BAC$.
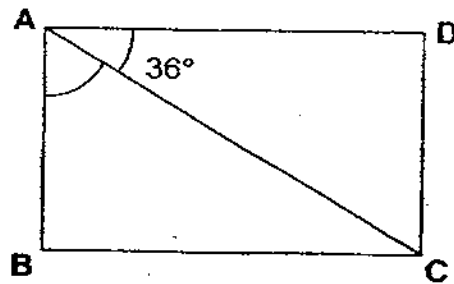
(1)   36°

(2)   44°

(3)   54°

(4)   64°   (   )

15. The perimeter of Rectangle A and Square B are equal.
    Find the length of Square B. (The figures are not drawn to scale.)
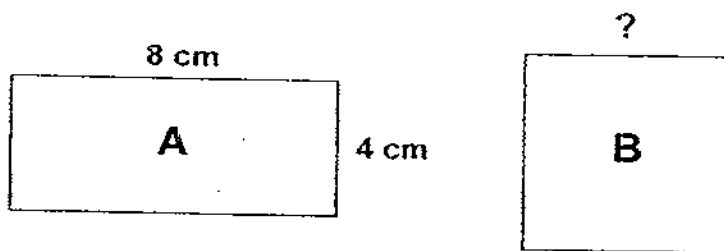
(1)   6 cm

(2)   8 cm

(3)   24 cm

(4)   32 cm   (   )

16. What is the size of angle x ?

90°

x
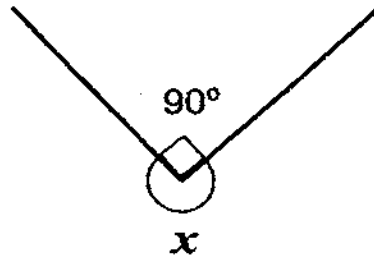
(1)   5 right angles

(2)   2 right angles

(3)   3 right angles

(4)   4 right angles   (   )

17. 8 034 people visited an art exhibition. There were twice as many adults as children. There were 1 698 women. How many men were there?
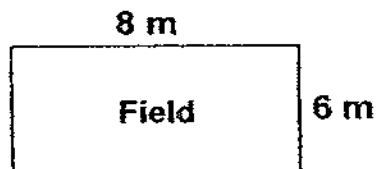
(1)   980

(2)   3 658

(3)   4 376

(4)   6 336   (   )

18. Abel ran round the rectangular field **twice** . What was the distance covered ?

8 m

Field   **6 m**

(1)   14 m

(2)   28 m

(3)   48 m

(4)   56 m   (   )

7

19. The breadth of a rectangle is 3 cm. If its length is 4 times as long as its breadth, what is the perimeter of the rectangle ?
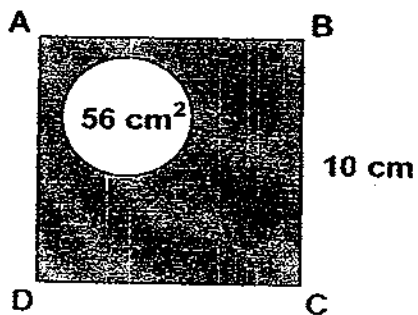
   (1)   12 cm

   (2)   14 cm

   (3)   30 cm

   (4)   36 cm   (   )

20.

In the figure above, ABCD is a square of side 10 cm. The area of the shaded portion is _____ cm². (The figure is not drawn to scale)

   (1)   16

   (2)   36

   (3)   44

   (4)   54   (   )

8

SECTION B (20 x 2 marks)
Questions 21 to 40 carry 2 marks each.
Write the correct answers for the following questions in the blanks provided.
Show your workings clearly and give your answers in the units provided.

21. Round off 2 056 to the **nearest ten**.

Answer: _____

22. Express $\dfrac{20}{7}$ as a mixed number.

Answer: _____

23. What is the 4th multiple of 8 ?

Answer: _____

24. Sam had 1 040 stamps. He put them equally into 6 plastic bags.
How many stamps were left over ?

Answer: _____ stamps

9

25. A red ribbon is $\frac{9}{12}$ m long. A yellow ribbon is $\frac{1}{6}$ m longer than the red ribbon. What is the length of the yellow ribbon?
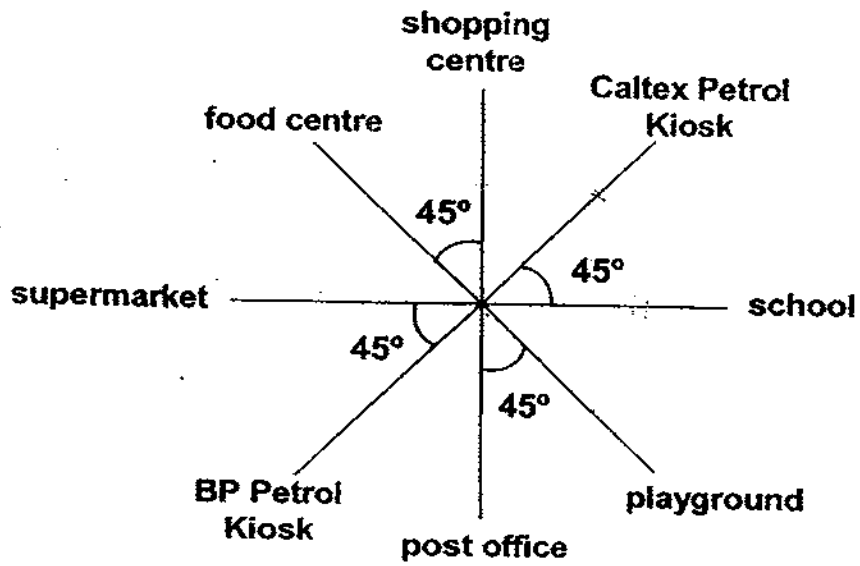
Answer: _____ m

26. There are _____ right angles in **2 complete turns**.

Answer: _____

27. Mina had $200. She used $\frac{2}{5}$ of it and saved the rest. How much did she save ?

Answer: $ _____

10

28. Bala is facing the playground. He turns 225° anti-clockwise. Which place will he face?

Answer: _____

29. $1 - \dfrac{1}{12} - \dfrac{1}{3} = \boxed{\ ?\ }$ Express your answer in its lowest term.

Answer: _____

30. Rearrange the numbers in order beginning with the **smallest**.

10 110,   11 011,   1 110,   11 101

Answer: _____, _____, _____, _____
       smallest

11

31. $\dfrac{3}{10}$ + ☐ = $\dfrac{2}{5}$. The missing fraction in the box is _____.

Answer: _____

32. Complete the number pattern.

29,   58,   116,   _____,   464,   928

Answer: _____

33. Using a protractor, measure ∠ABC.

A

B   C
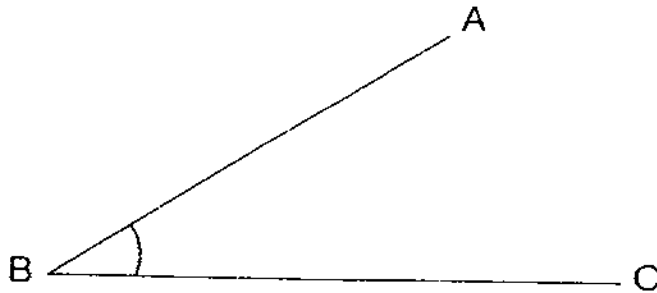
Answer: _____ °

34. How many <u>halves</u> are there in $3\dfrac{1}{2}$?

Answer: _____

35. Mrs Lim needed 426 beads to make a wedding gown but found that she was short of 104 beads. How many beads did she have ?

Answer: _____ beads

36. Divide 2 149 by 6. The quotient is (a) _____ and the remainder is (b) _____.
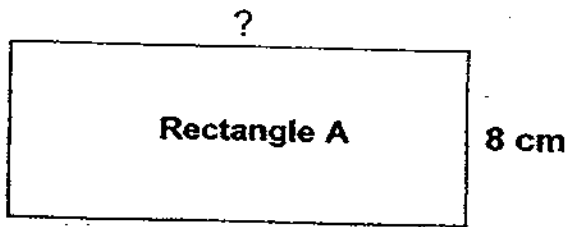
Answer: (a) _____

(b) _____

37. Figure A below is made up of 12 identical squares. What fraction of the figure is shaded?

Figure A

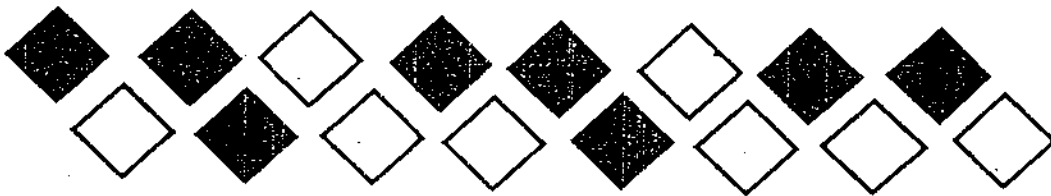Answer: _____

38. The area of Rectangle A below is 152 cm². The breadth of the rectangle is 8 cm. Find the length of the rectangle.
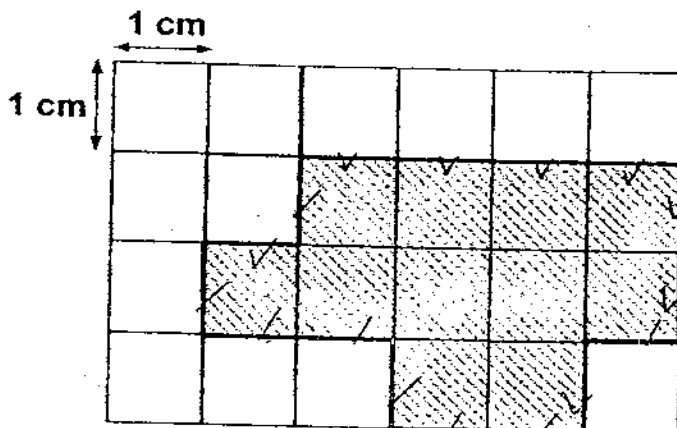
?

Rectangle A   8 cm

Answer: _____ cm

39. What fraction of the set below is shaded? Write your answer in the simplest form.

Answer: _____

40. The figure is made up of identical 1-cm squares. What is the perimeter of the **shaded** figure?

1 cm

1 cm

Answer: _____ cm

14

Section C (20 marks)

Do the following sums carefully. All statements and workings must be clearly shown. All units must also be stated clearly.

41. A toaster costs $125. A refrigerator costs 3 times as much as a toaster. Mr Lim bought one such refrigerator and 2 such toasters. How much did he spend altogether ?

42. Kelly was given some coupons to sell for the school carnival.
    For every 2 coupons sold, she would be rewarded with 5 stickers.
    How many coupons would she have to sell if she wanted to collect 20 stickers?

43. Jenny had $120. She spent $\frac{3}{8}$ of it on a pair of shoes and $35 on a skirt. How much money had she left ?

44. Vince had 15 more stamps than Ron. Chris had 3 times as many stamps as Vince. If the 3 children had 455 stamps altogether, how many stamps did Vince have?

45. The figure below is made up of Square A and Rectangle B
The perimeter of the whole figure shown is 60 cm.
Find the length of Square A.
(The figure is not drawn to scale.)
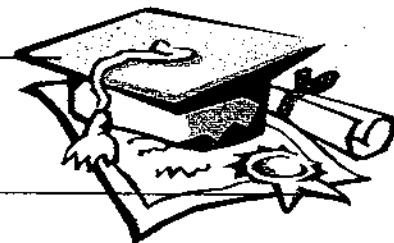

End of Paper

17
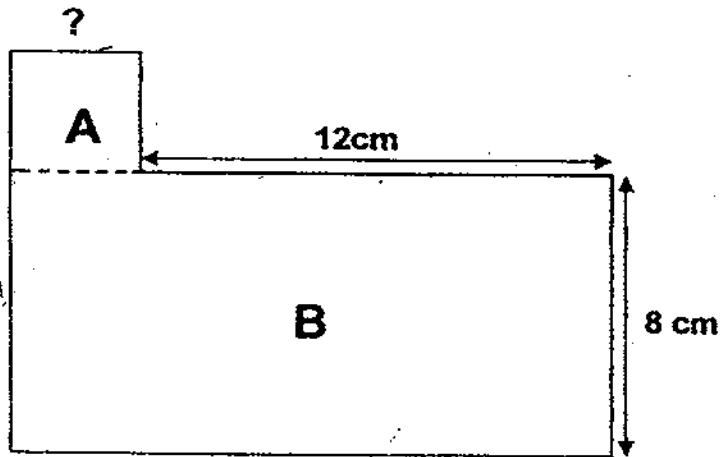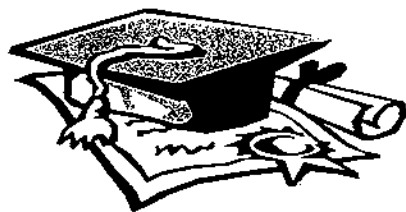
ANSWER SHEET

EXAM PAPER 2009

SCHOOL   : NAN HUA PRIMARY SCHOOL
SUBJECT : PRIMARY 4 MATHEMATICS

TERM   : SA 1

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

Q18	Q19	Q20
4	3	3

21)2060   22)2 6/7   23)32   24)2stamps

25)11/12 m   26)8   27)$120   28)supermarket

29)7/12   30)1110,10110,11011,11101   31)1/10

32)232   33)32°   34)7   35)322 beads

36)a)358   b)1   37)7/12   38)19 cm   39) ½

40)16 cm

41)$125x3=$375
   $125x2=$250
   $375+$250=$625
   He spent $625 altogether.

42)20÷5=4
   4x2=8
   She had to sell 8 coupons.

43) $120 ÷ 8 = $15
$15 x 3 = $45
$45 + $35 = $80
$120 - $80 = $40
She had $40 left.

44) 15 x 4 = 60
455 - 60 = 395
395 ÷ 5 = 79
79 + 15 = 94
Vince had 94 stamps.

45) 12 x 2 = 24
8 x 2 = 16
24 + 16 = 40
60 - 40 = 20
20 ÷ 4 = 5
The length of Square A is 5 cm.