Nan Hua Primary School
Semestral Assessment 1 – 2007
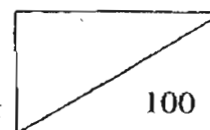### Mathematics
Primary Four

Name: _____ (   )   Marks: ⟋ 100

Class: Primary 4 __

Date: 8 May 2007

Duration : 1 h 45 min

Parent's signature

Section A (20 × 2 marks)

Questions 1 to 20 carry 2 marks each.

Of the 4 options given, only one is correct. Choose the correct answer
(1, 2, 3 or 4) and write its number in the brackets provided.

1.   In 67 002, the value of the digit '7' is _____.

    (1)   70
    (2)   700
    (3)   7 000
    (4)   70 000   (   )

2.   How many **hundreds** are there in the sum of 7 500 and 2 500 ?

    (1)   10 000
    (2)   1 000
    (3)   100
    (4)   10   (   )

3. What is the difference between the <u>eighth multiple of 4</u> and the <u>fifth multiple of 3</u> ?

(1)   15
(2)   17
(3)   32
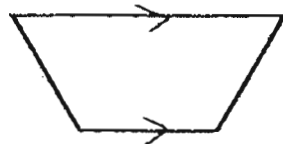(4)   47   (   )

If the number of people watching a performance, correct to the nearest thousand, is 300 000. What is the **largest** possible number of people watching the performance ?

(1)   255 999
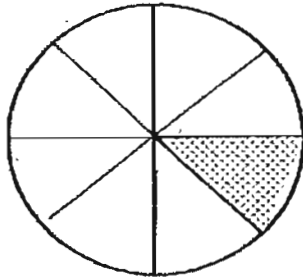(2)   299 999
(3)   300 499
(4)   300 999   (   )

5. How many pair(s) of parallel lines are there in the figure?

(1)   1
(2)   2
(3)   0
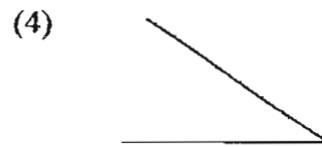(4)   4   (   )

2

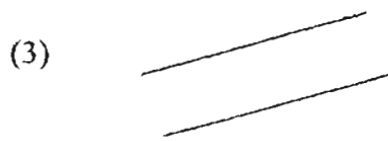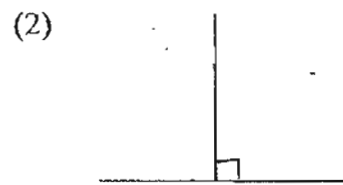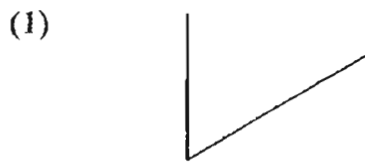6. What fraction of the circle below is shaded ?

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

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

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

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

7. Which of the following shows a pair of perpendicular lines?

(1)

(2)

(3)

(4)

(   )

3

6 is a common factor of _____ .

(1) 3 and 2
(2) 3 and 6
(3) 6 and 20
(4) 18 and 30   (   )

Which of the following is NOT equivalent to $\dfrac{9}{12}$?

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

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

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

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

10. The factors of 12 are _____ .

(1) 12, 8, 6, 3, 2, 1
(2) 12, 6, 4, 3, 2, 1
(3) 12, 10, 8, 6, 4, 2
(4) 12, 24, 36, 48, 54, 60   (   )

4

11. $2\frac{3}{7}$ expressed as an improper fraction is _____.

(1) $\frac{14}{7}$

(2) $\frac{17}{7}$

(3) $\frac{11}{7}$

(4) $\frac{12}{7}$ (   )

12. Which of the following will give the **smallest** answer?

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

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

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

(4) $1 - \frac{1}{5}$ (   )

13. If Peter makes $\frac{3}{4}$ of a complete turn, how many degrees did he make ?

(1)   90°
(2)   180°
(3)   270°
(4)   360°   (   )

14. When a number is divided by 4, it gives a remainder of 2.
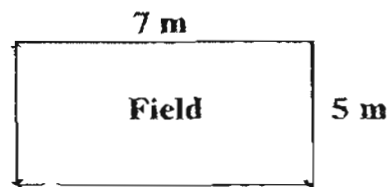What is the number ?

(1) 85
(2) 86
(3) 87
(4) 88   (.)

15. How many eighths are there in $1 + 2\frac{3}{8}$?

(1) 6

(2) 9

(3) 27

(4) 33   (   )

16. Mr Lim ran round a rectangular field <u>twice</u> . What was the distance covered ?

(1) 12 m
(2) 24 m
(3) 35 m
(4) 48 m   (   )

6
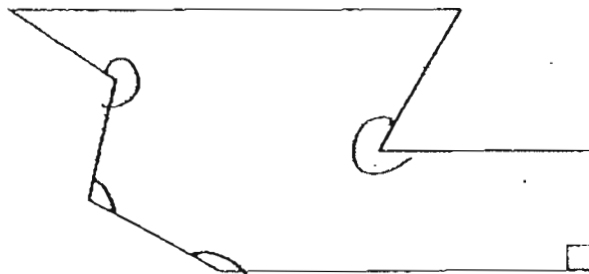
17. Lisa has 36 buttons. $\frac{2}{9}$ of them are blue, 11 of them are green and
the rest are red. How many red buttons does she have ?

    (1)   8
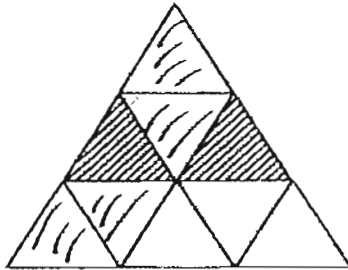   (2)   13
    (3)   17
    (4)   19   (   )

How many angles <u>inside</u> the figure are **greater than** a right-angle?

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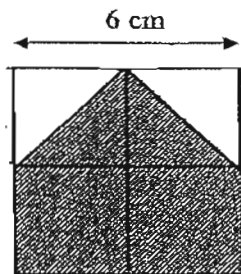   (3)   3
    (4)   4   (   )

7

127

19. In the figure below, 2 similar triangles are shaded. How many **more** such triangles must be shaded so that $\frac{2}{3}$ of the figure is shaded ?

(1) 6
(2) 2
(3) 3
(4) 4   ( )

This figure is made up of identical squares joining together. If the length of the figure is 6 cm, find the area of the shaded region.

6 cm

(1) 12 cm^2
(2) 36 cm^2
(3) 24 cm^2
(4) 27 cm^2

(·)

8

Questions 21 to 40 carry 2 marks each.
Write out the correct answers for the following questions in the boxes provided. Show your workings clearly, and give your answers in the units provided.

21. In 80 457, the digit _____ is in the **tens** place.

22. Eighty-eight thousand and eighty-eight written as a numeral is _____ .

23. Use **all** the digits 5, 8, 2, 0, 7 to form the <u>largest odd number</u>.

24. The first two common multiples of 3 and 5 are _____ and _____ .

9

129

25. Multiply 360 by 10. The answer is _____ more than 3 000.

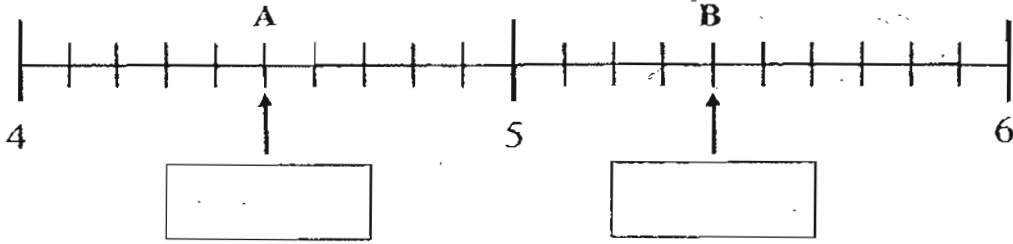26. Complete the number pattern.

29, 58, 116, _____, 464, 928

27. Kate and Lisa shared $80. Kate got $4 more than Lisa. How much did Lisa get?

$ _____

28. In $\frac{1}{2} - \frac{2}{5} =$ _____ , fill in the blank.
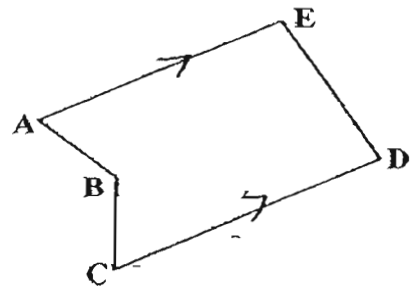
29. Express $\frac{20}{7}$ as a mixed number.

30. What mixed number does each letter represent ?
Express your answer in its simplest form.

A: _____ B: _____

31. In the figure, AE is parallel to line _____

32. Every 3 bags cost $16 and every 4 T-shirts cost $12. Find the total cost of 15 such bags and 20 such T-shirts.

$ _____

11

33. What number am I thinking of ?

$\frac{2}{3}$ of it is 40.

$\frac{2}{5}$ of it is 24.

The number is _____ .

34. 198

Ahmad wants to put all his marbles into jars. If each jar can only contain 8 marbles, what is the **least** number of jars he will need?

jars

35. Arrange the fractions in <u>ascending order</u>

$$\frac{7}{12}, \quad \frac{1}{4}, \quad \frac{1}{3}$$

On Monday, a student read a story book from page 24 to 29. If he read the same number of pages for a week, find the total number of pages the pupil read for the whole week.

pages

37. Anthony has 47 stickers. He has 13 stickers less than Beverley while Cornie has 8 stickers more than Beverley. How many stickers do they have altogether?

	stickers

38. There were 2 blue beads, 4 yellow beads and 5 green beads in a jar. What fraction of the beads in the jar was yellow?

39. The sum of 2 numbers is 30. The difference between the 2 numbers is 6. What is the smaller number?

40. Using a protractor, measure ∠ACB.

°

13
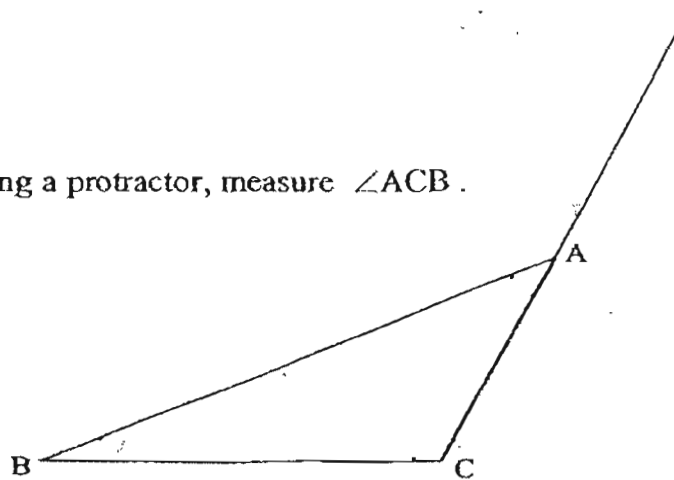
Section C: Problem Sums (5 × 4 = 20 marks)

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

41.   Cecilia has 178 marbles. Ali has 38 more marbles than Cecilia. How many marbles do they have altogether ?

42.   Tom had $240. He gave $20 to his friend and now has twice as much as his friend. How much money did his friend have <u>at first</u> ?

43. Mrs Yang bought 3 silk blouses at $49 each and 2 pieces of pants at $36 each. She gave the cashier a $500 note. How much change did she receive?

44. Jane bought some pencil caps.

She gave Alice $\frac{1}{4}$ of the pencil caps and Theresa $\frac{1}{3}$ of the pencil caps. She kept the remaining 40 pencil caps for herself.

(a) What fraction of the pencil caps did she keep for herself?
(b) How many pencil caps did she buy in all?

45. The areas of the square and the rectangle shown below are equal.
Find the perimeter of the rectangle.
(The figures are not drawn to scale.)

12 cm ▢

12 cm

8 cm

16
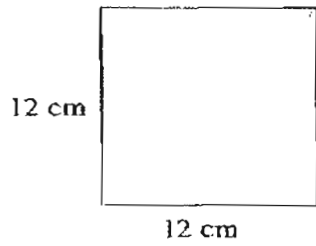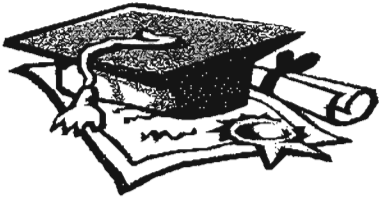
ANSWER SHEET

NAN HUA PRIMARY SCHOOL - PRIMARY 4 MATHEMATICS 2007
SEMESTRAL ASSESSMENT (1)

1. 3
2. 3
3. 2
4. 3
5. 1
6. 4
7. 2
8. 4
9. 2
10. 2
11. 2
12. 1
13. 3
14. 2
15.
16. 4
17. 3
18.
19. 4
20. 4
21.
22. 88088
23. 87205
24. 15, 30
25. 600
26. 232
27. $38
28. 1/10
29. $2\frac{6}{7}$
30. A: $4\frac{1}{2}$
    B: $5\frac{2}{5}$

31) CD
32) $140
33) 60
34) 25 jars
35) ¼, 1/3, 7/12
36) 42 pages
37) 175 stickers
38) 4/11
39) 12
40) 118°

41) No. of marbles Ali has→178+38=216 marbles
No. of marble Ali and Cecilia has→178+216
=394 marbles
They have 394 marbles altogether.

42) 240-20=220
220÷2=110
110-20=90
His friend had $90 at first.

43) Cost of 3 silk blouses→$49x3=$147
Cost of 2 pieces of pants→$36x2=$72
Amount of change received→$500-147-72=$281
She received $281 of change.

44) a)Fraction of the pencil caps she kept for
herself→1-(1/3+1/4)
=1-(4/12+3/12)
=1-7/12
=5/12
She kept 5/12 pencil caps for herself.
b) 1 unit =1/12
5 units=5/12=40
12 units=12/12
No. of pencil caps she bought→(40÷5)x12
=8x12=96 pencil caps
She bought 96 pencil caps in all.

45) Area of the square→12cmx12cm=144cm2
Length of the rectangle→144cm2÷8cm=18cm
Perimeter of the rectangle→(18cmx2)+(8cmx2)
=36cm+16cm
=52cm
The perimeter of the rectangle is 52cm.