NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2012
PRIMARY 4
MATHEMATICS

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-20.

Marks Obtained

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

Name . _____ (   )

Class : Pr 4 _____

Date : 9 May 2012

Parent's Signature : _____

Questions 1 to 20 carry 2 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 correct oval on the OAS (40marks).

1.   In 24 598, the digit _____ is in the ten thousands place.

(1)   5

(2)   2

(3)   9

(4)   4

2.   Find the difference between 8 403 and 2 628.
     Round off the answer to the nearest hundred.

(1)   5 700

(2)   5 800

(3)   6 200

(4)   6 300

3.   What is the value of 12 thousands, 40 hundreds, 15 tens and 6 ones?

(1)   12 421

(2)   12 556

(3)   16 021

(4)   16 156

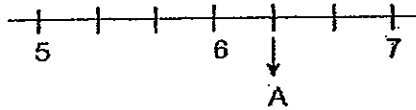4.   What is 6 035 divided by 5?

(1)   1 207

(2)   1 007

(3)   127

(4)   107

5. What is the sum of the 2nd multiple of 4 and 8th multiple of 8?

 (1) 22

 (2) 24

 (3) 56

 (4) 72

6. In the number line shown below, which mixed number does the letter A stand for?

 (1) $5\dfrac{1}{3}$

 (2) $5\dfrac{1}{4}$

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

 (4) $6\dfrac{1}{4}$

7. Which of the following fractions is the smallest?

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

 (2) $\dfrac{3}{7}$

 (3) $\dfrac{5}{9}$

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

2

8. 45 x 123 = ☐ groups of 123 − 15 groups of 123

    (1)   30

    (2)   60

    (3)   3

    (4)   675

9. How many sixths are there in $2\frac{1}{2}$?

    (1)   5

    (2)   9

    (3)   12

    (4)   15

10. There are 12 red beads and 8 blue beads in a container. What fraction of the beads in the container is blue?

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

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

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

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

11. Jane has 36 clips. She gives $\frac{4}{9}$ of the clips to her sister. How many clips has she left?

   (1)   16

   (2)   20

   (3)   27

   (4)   32
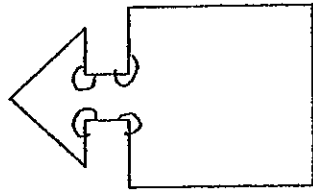
12. What is the value of $7\frac{3}{5} + \frac{3}{10}$?

   (1) $7\frac{6}{15}$

   (2) $7\frac{6}{10}$
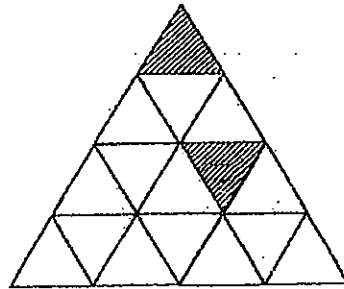
   (3) $7\frac{9}{10}$

   (4) $8\frac{1}{10}$

13. What is the area of a rectangle which measures 19 cm by 4 cm?

   (1)   23 cm²

   (2)   46 cm²

   (3)   76 cm²

   (4)   166 cm²

4

14. How many angles within the figure below are bigger than a right angle?

(1)   9

(2)   7

(3)   5

(4)   4

15. Study the figure below carefully. How many more triangles must be shaded so that $\frac{3}{4}$ of the figure is shaded?
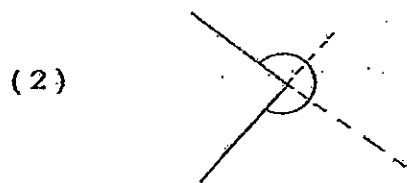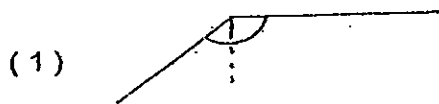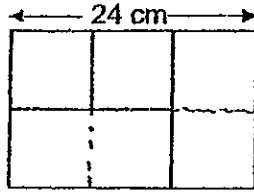

(1)   5

(2)   7

(3)   10

(4)   12

16. How many right angles does the minute hand make when it moves from 2 p.m. to 3.45 p.m. on the same day?

(1)   6

(2)   7

(3)   3

(4)   4

17. Which of the following marked angle is greater than a right angle but smaller than 2 right angles?

(1)

(2)

(3)

(4)

6

18. The figure below is made up of 2 identical squares and 2 identical rectangles. Find its perimeter.

(1)   80 cm

(2)   96 cm

(3)   120 cm

(4)   384 cm

19. Part of a 2 m wire is cut and bend into a square and a triangle as shown below. The triangle has 3 equal sides. What is the length of the remaining wire?

10 cm
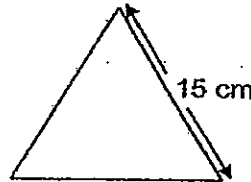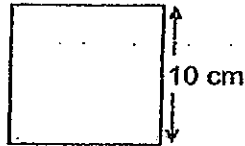
15 cm

(1)   55 cm

(2)   85 cm

(3)   115 cm

(4)   175 cm

20. A box can be filled up with either 40 big marbles or 60 small marbles. If there are 10 big marbles in the box now, how many more small marbles are needed to fill up the box?

(1)   15

(2)   30

(3)   45

(4)   50

Questions 21 to 40 carry 2 marks each. Write your answers in the spaces provided. Show your workings clearly and write the answers in the units provided.

21. Form the smallest 5-digit number with the digits 3, 8, 0, 5 and 6 that is divisible by 5. Each digit can be used only once.

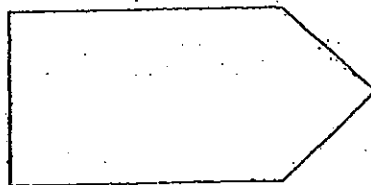Answer: _____

22. Complete the number pattern.

24 064, 24 082, 24 100, _____, 24 136

Answer _____

23. Express $\frac{16}{6}$ as a mixed number in its simplest form.

Answer: _____

24. How many pairs of perpendicular lines are there in the figure below?

Answer: _____ pairs

8

61

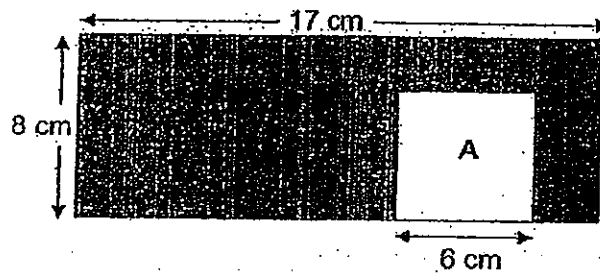25. $\dfrac{14}{35} = \dfrac{\boxed{}}{30}$

What is the missing numerator in the box?

Answer: _____

26. The perimeter of a rectangle is 48 cm. The length of the rectangle is thrice its breadth. What is the breadth of the rectangle?

Answer: _____ cm

27. The figure below is not drawn to scale. It is made up of a rectangle and a square A. Find the area of the shaded part of the figure.
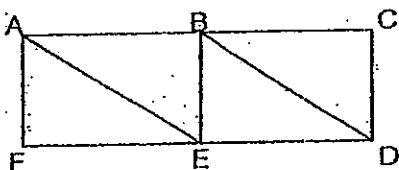

Answer: _____ cm²

28. $7 - \dfrac{3}{8} = \boxed{?}$

Answer:_____

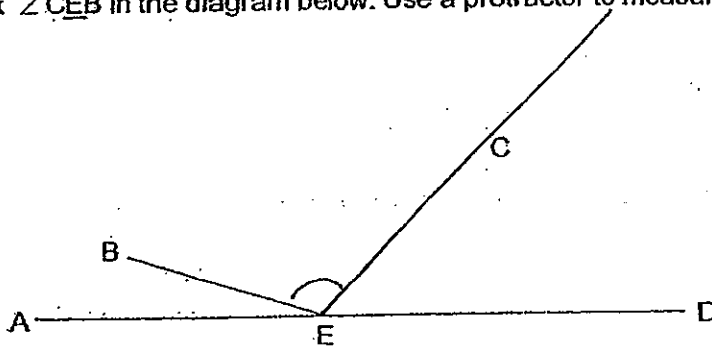29. In the figure below, name the line that is parallel to line AE.

Answer: AE // _____

30. What is the missing number in the box?

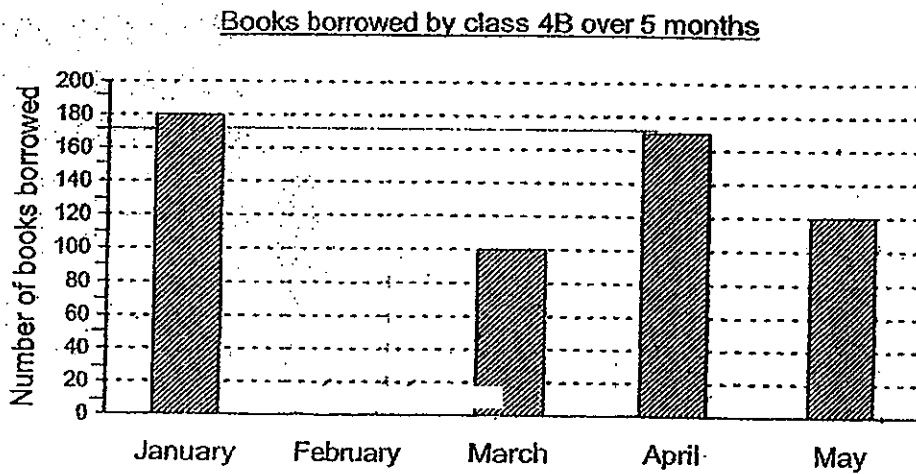$$\dfrac{32}{8} + \dfrac{\square}{4}$$

Answer: _____

31. Mark $\angle CEB$ in the diagram below. Use a protractor to measure $\angle CEB$.

Answer:_____

10

63

The graph below shows the number of books borrowed by class 4B from January to May of a certain year. February's figure is left out in the graph below. Study the graph and answer questions 32 to 34.

Books borrowed by class 4B over 5 months

32. What is the total number of books borrowed from March to May?

Answer: _____

33. If $\frac{2}{3}$ of the books borrowed in January were English books, how many books borrowed in that month were non-English books?
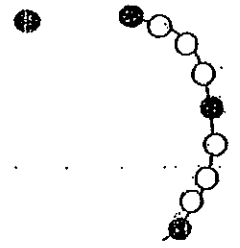
Answer: _____

34. If the pupils borrowed a total of 770 books over the five months, **complete the bar graph above** by drawing the missing bar that represents the number of books borrowed in February.

11

35. 213 children shared some boxes of pencils. After they had taken 16 pencils each, there were 2 pencils left. How many pencils were there at first?

Answer:_____ pencils

36. Lovell uses some black and white beads to make a bracelet.
For every black bead used, she uses three white beads. She uses black beads at the beginning and end of the bracelet. If she uses 20 black beads in all, how many white beads does she use to make the bracelet?

Answer:_____ white beads

37. Thaddeus is facing the Northwest direction. He first made a $\frac{1}{2}$-turn in the clockwise direction followed by a $\frac{3}{4}$-turn in an anti-clockwise direction. In which direction will he be facing in the end?
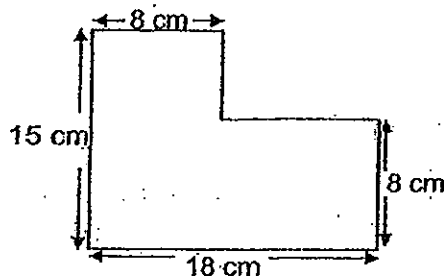
N

Answer:_____

12

38. $\frac{2}{3}$ of a number is 10. What is $\frac{1}{5}$ of the same number?

Answer: _____

39. The following figure is not drawn to scale. Find the perimeter of the figure.

Answer: _____ cm

40. How many 4 cm by 4 cm squares can be cut from a rectangular board measuring 24 cm by 20 cm?

Answer: _____

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

41. Johnny and Kenneth have a total mass of 81 kg. If Johnny is 3 kg lighter than Kenneth, what is Kenneth's mass?

42. The pupils of class 4A were selling coupons for the school carnival.
    For every 8 coupons sold, they received 4 star tokens.
    If they received a total of 32 star tokens, how many coupons did they sell?

67

43. Jim spent $\frac{1}{4}$ of his money on lunch and $\frac{1}{3}$ of his money on a pencil case.

    (a) What fraction of the money did he spend?

    (b) If he had $15 left, how much money did he have at first?

44. Farmer John owns a total of 40 ducks and goats on his farm. If the total number of legs of the animals is 108, how many ducks does Farmer John have?

45. There were strings of different coloured lights on a Christmas tree. The red lights lit once in every 2 seconds, the green lights lit once in every 5 seconds and the yellow lights lit once in every 10 seconds. How many times would the three coloured lights lit together in half a minute?

ANSWER SHEET

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

Q18	Q19	Q20
1	3	3

21)30685   22)24118   23)2 2/3   24)3   25)12

26)6cm   27)100cm2   28)53/8   29)BD   30)11

31)116°   32)390   33)60   34)February→200

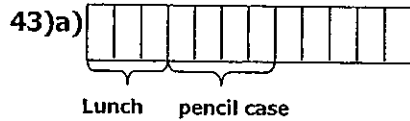35)3410   36)57   37)Southwest   38)3   39)66cm

40)30

41)Johnny [ ]
   Kenneth [ ] 3 } 81

81kg – 3kg = 78kg
78kg ÷ 2 = 39kg
39kg + 3kg = 42kg
Kenneth's mass is 42kg

42) $32 \div 4 = 8$
$8 \times 8 = 64$
The sold 64 coupons

43)a)

Lunch   pencil case

$4 \times 3 = 12$
$\frac{1}{4} = 3/12$
$1/3 = 4/12$
$4/12 + 3/12 = 7/12$
He spent 7/12 of the money.

b)$15 \div 5 = 3
$3 \times 12 = 36
He had $36 at first.

44) $40 \times 2 = 80$
$180 - 80 = 28$
$4 - 2 = 2$
$28 \div 2 = 14$
$40 - 14 = 26$
Farmer John has 26 ducks.

45)The three coloured Light lit 3 times together at the same time in half a minute.