NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2012

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	**/ 30**
Section B	**/ 40**
Section C	**/ 30**

Total:	**/ 100**

Name: _____ ( )

Class: Primary 4 ( )

Date: 10 October 2012

Parent's Signature: _____

Any query on marks awarded should be raised by 25 October 2012. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

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Section A

Questions 1 to 15 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(Total: 30 marks)

1. $5 \times 10\,000 + 6 \times 1000 + 3 \times 100 + 8 \times 1 =$ _____ .

(1) 56 381
(2) 56 308
(3) 56 301
(4) 56 038

2. Complete the following number pattern.

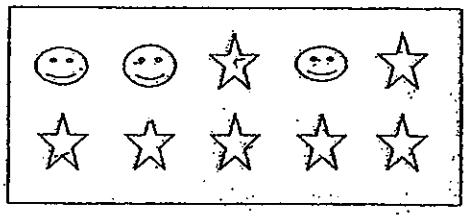
7, 10, 13, _____ , _____ , 22

(1) 14, 15
(2) 14, 21
(3) 16, 17
(4) 16, 19

3. 42 569 rounded off to the nearest hundred is _____.

(1) 42 500
(2) 42 570
(3) 42 600
(4) 43 000

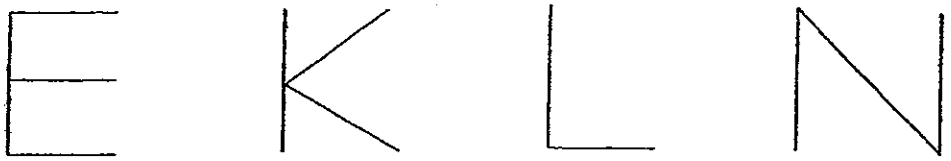
4. What fraction of the shapes in the box are ☺ ?



(1) $\frac{3}{10}$
(2) $\frac{3}{7}$
(3) $\frac{7}{10}$
(4) $\frac{7}{3}$

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5. Which of the following figures contains both parallel and perpendicular lines?



(1) E (2) K
(3) L (4) N

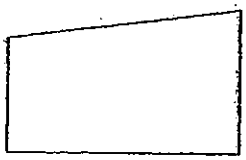
6. What is the number when 156.74 is rounded off to 1 decimal place?

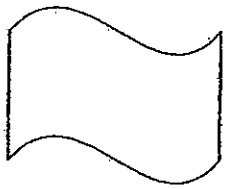
(1) 156.0 (2) 156.7

(3) 156.8 (4) 157.0

7. Which one of the following figures is a symmetric figure?

(1) 

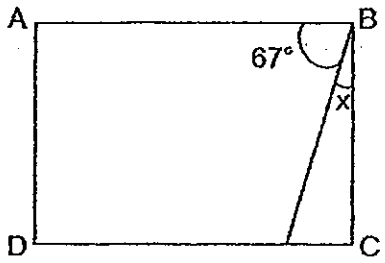
(2) 

(3) 

(4) 

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8. In the figure below, ABCD is a rectangle.
Find $\angle x$.



(1) 23°
(2) 37°
(3) 45°
(4) 113°

9. There were 43 identical baskets. Mr Raju packed 307 oranges into each basket. How many oranges were there altogether?

(1) 1649
(2) 2179
(3) 13 20
(4) 21 490

Find the sum of 8 tenths and 16 hundredths.
Round off your answer to 1 decimal place.

(1) 0.8
(2) 0.9
(3) 1.0
(4) 1.1

11. Selina is facing south-west. She makes a $\frac{3}{8}$ turn in an anti-clockwise direction. Which direction is she facing now?

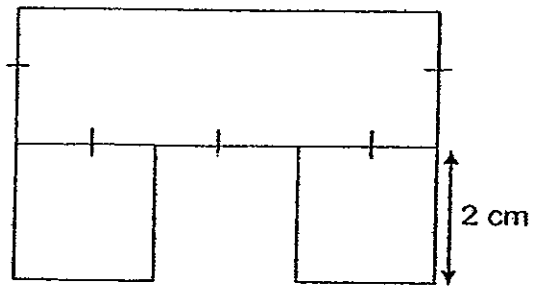
(1) West
(2) East
(3) North
(4) South

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12. Jiemin completed a race in 95 seconds. Lisa was 30 seconds faster than Jiemin. How long did Lisa take to complete the race?

(1) 1 min 5 sec
(2) 1 min 25 sec
(3) 2 min 5 sec
(4) 2 min 25 sec

13. The figure below is made up of a rectangle and 2 identical squares. Each side of the square is 2 cm. What is the area of the figure?



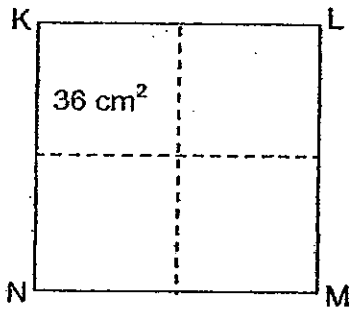
(1) 24 cm^2
(2) 8 cm^2
(3) 20 cm^2
(4) 4 cm^2

14. X is a number between 20 and 60.
When it is divided by 6 or 8, there is a remainder of 3.
When it is divided by 9, there is no remainder.
Which one of the following numbers is X?

(1) 56
(2) 45
(3) 36
(4) 27

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15. The square KLMN is divided into 4 equal parts as shown below. The area of each part is 36 cm^2. Find the perimeter of square KLMN.



(1) 144 cm
(2) 48 cm
(3) 24 cm
(4) 12 cm

Section B

Questions 16 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. Marks will be awarded for relevant working.

(Total: 40 marks)

16. Two factors of 6 are 1 and 6. What are the other two factors of 6?

Answer : _____

17. What is the value of $\frac{5}{6} + \frac{2}{3}$?

Express your answer as a mixed number.

Answer : _____

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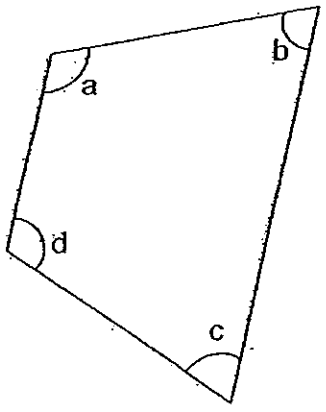
18. Find the value of $1 - \frac{2}{5} - \frac{3}{10}$.

Answer : _____

19. Arrange the following fractions from the smallest to the greatest.

Answer : _____ (smallest) , _____ , _____ (greatest)

20. In the figure, name the two angles that are greater than 90°.



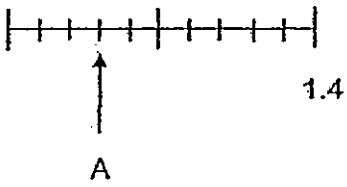
Answer : ∠____ and ∠

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21. Write 13 hundredths in figures.

Answer : _____

22. Write the decimal represented by A.



Answer : _____

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

0.085, 0.805, 0.508

Answer : _____ (greatest) , _____ , _____ (smallest)

24. Find the value of 2.98 × 7.

Answer : _____

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25. Express 0.45 as a fraction in its simplest form.

Answer : _____

26. Aileen has $\frac{9}{10}$ m of ribbon. Jane's ribbon is $\frac{1}{2}$ m longer than Aileen's ribbon. Find the total length of ribbon that both girls have.

Express your answer as a mixed number.

Answer : _____m

27. Mike had $95. He spent $\frac{2}{5}$ of his money on a shirt and saved the rest of his money. How much money did he save?

Answer : $_____

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28. AB is a straight line. Construct an angle such that $\angle ABC = 80°$. Mark and label the angle.

A ——————————————————— B

29. The figure below shows a line MN and a point P. Draw a line parallel to MN passing through point P.

P •

N

M

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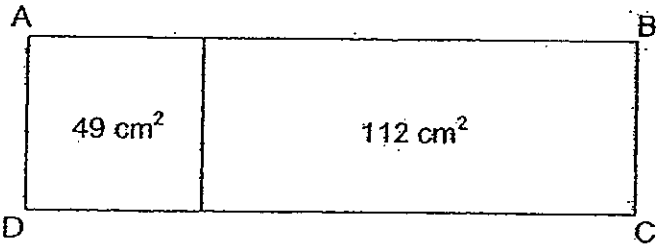
30. Class 4A won $60 in a competition. The money was shared equally among the 40 pupils in the class. How much did each pupil receive?

Answer : $_____

31. Mrs Wong baked 1550 cupcakes. She packed all the cupcakes into boxes. Each box could hold 6 cupcakes. What was the minimum number of boxes Mrs Wong used to pack all the cupcakes?

Answer : _____

32. The figure ABCD below is made up of a square and a rectangle. The area of the square is 49 cm^2 and the area of the rectangle is 112 cm^2. Find the length of AB.



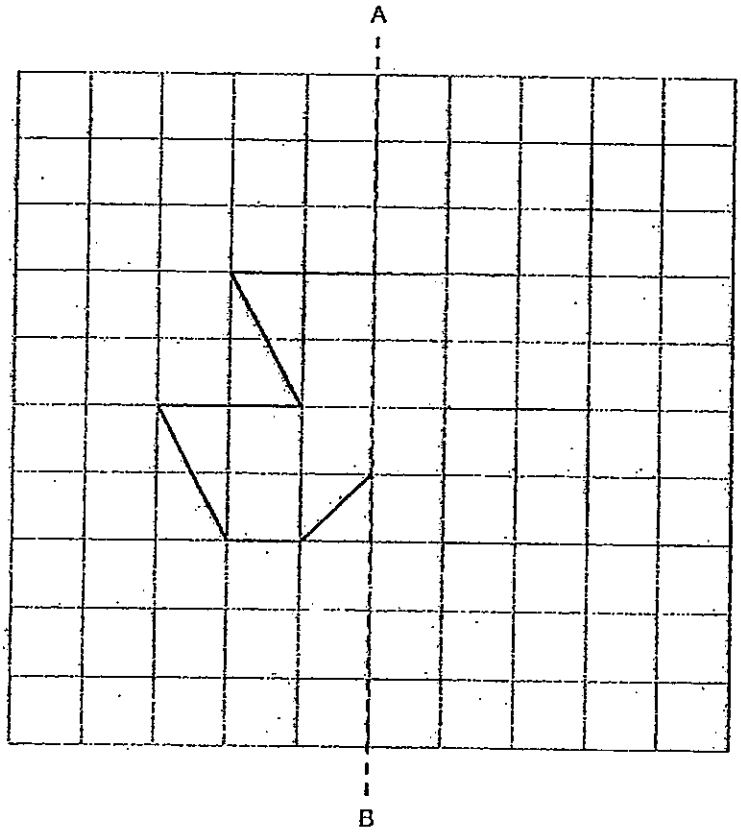
Answer : _____cm

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33. Jane had 16.12 kg of sugar.
She used 6.2 kg of sugar to bake a cake.
How many kilogrammes of sugar were left?
Round off your answer to the nearest whole number.

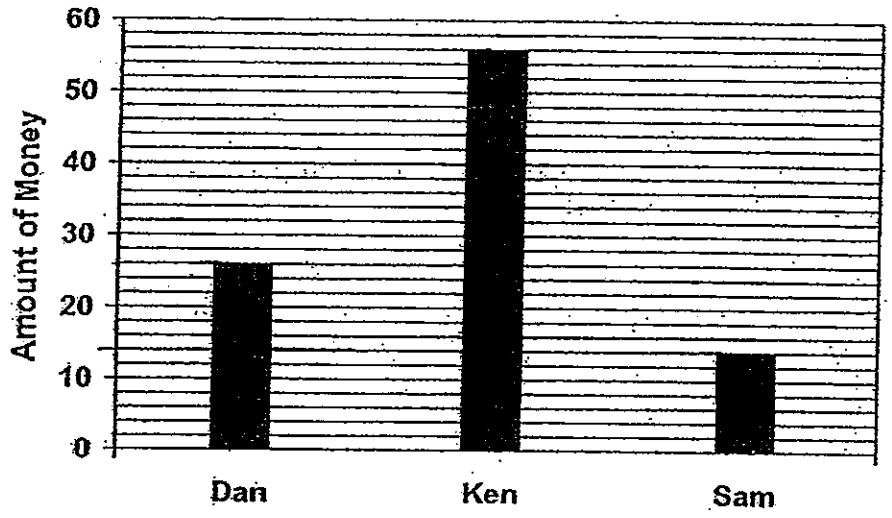
Answer : _____kg

34. Complete the figure below so that AB is the line of symmetry.



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35. The bar graph below shows the amount of money that Dan, Ken and Sam have.



What is the total amount of money Ken has to give Dan and Sam so that all will have the same amount of money?

Answer : $ _____

8s

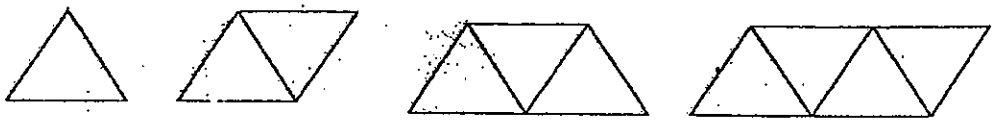
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Section C

Questions 36 to 37 carry 3 marks each and questions 38 to 43 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(Total: 30 marks)

36. The sequence of the figures below is formed by toothpicks.
3 toothpicks are used to form 1 triangle, 5 toothpicks to form 2 triangles and 7 toothpicks to form 3 triangles. Study the patterns carefully and answer questions (a) and (b).



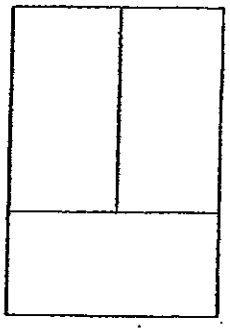
(a) How many toothpicks are needed to form 6 triangles?
(b) How many triangles can be formed with 21 toothpicks?

Ans: a)_____[1]

b)_____[2]

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37. The figure below is made up of 3 identical rectangles. The area of each rectangle is 32 cm^2. The length and breadth of the rectangle are whole numbers. Find the perimeter of the figure.



Ans: _____ [3]

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38. In a school bookshop, pencils are sold at either $0.80 each or $3 for a set of 5 pencils. What is the maximum number of pencils that Mr Tan can buy if he has $1780?

Ans: _____ [4]

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39. A tank is $\frac{2}{5}$ filled with oil. When 120 ml of oil are added into the tank, it becomes $\frac{2}{3}$ full. How many more millilitres of oil are needed to completely fill the tank?

Ans: _____ [4]

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40. The time in Paris is 6 hours behind that of Singapore. Jonah took a 12 hour flight from Singapore to Paris. He departed from Singapore at 12 35 on Tuesday.

(a) What was the time in Paris when he arrived there?
(b) On which day in Paris did he arrive there?

Ans: (a)_____ [3]

(b)_____ [1]

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41. The table below shows the number of muffins sold by Victor in 5 months from January to May.

Month	January	Feb	March	April	May
Muffins	150	200	250	?	?

The number of muffins that Victor sold in April was $\frac{2}{5}$ of the total number of muffins he sold in the first 3 months from January to March.

(a) What was the number of muffins Victor sold in April?

(b) Victor earned $3 for every muffin he sold. He earned a total amount of $3060 from January to May. How many muffins did he sell in May?

Ans: (a)_____ [1]

(b)_____ [3]

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42. Alice, Jane and Tina have 1050 paper hats altogether. Tina has 150 paper hats more than Jane. Tina has twice as many paper hats as Alice. How many paper hats does Jane have?

Ans: _____ [4]

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43. Victoria has a sum of money to buy some pears. If she buys 6 pears, she will have $1 left. If she buys 8 pears, she will be short of $1.40.
(a) What is the cost of 1 pear?
(b) How much money does Victoria have?

Ans: (a) _____ [2]

(b) _____ [2]

END OF PAPER

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Answer Ke

EXAM PAPER 2012

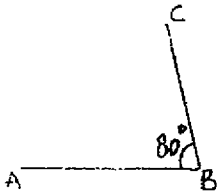
SCHOOL : NanYang Primary School
SUBJECT : Primary 4 - Maths
TERM : SA 2

Paper 1

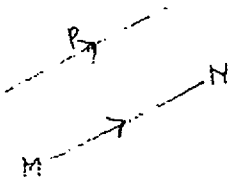
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	4	3	1	1	2	1	1	3	3	2	1	3	4	2

16 2,3
17 1 1/2
18 3/10
19 3/8, 1/2, 3/4
20 a, d
21 0.13
22 1.26
23 0.805, 0.508, 0.085
24 20.86
25 9/20
26 9/10 + 9/10 + 1/2 = 2 3/10m
27 3/5 x $95 = $57

28



29

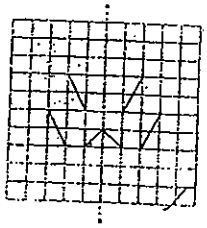


30 $60 ÷ 40 = $1.50
31 1550 ÷ 6 = 258 r 2
258 + 1 = 259
32 √49 = 7
112 ÷ 7 = 16
16 + 7 = 23cm

95

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33 16.12 - 6.2 = 9.92
9.92 ≈ 10kg

34 

35 $56 + $26+ $14 = $96
$96 ÷ 3 = $32
$32 - $14 = $18
$32 - $26 = $6
$18 + $6 = $24

36a 13

36b 10

37 Breath is half of Length.
B = 4, L = 8
Perimeter = 40cm

38 $1780 ÷ 3 = 593.33
$593 x 3 = $1779
$1780 - $1779 = $1
$1 = at most 1 pencil.
1 + (593 x 5) = 2966

39 2/3 - 2/5 = 4/15
4/15 = 120ml
1 - 2/3 = 1/3
(1/3) ÷ (4/15) x 120 = 150m

40a 18 35

40b Tuesday

41a 150 + 200 + 250 = 600
2/5 x 600 = 240

41b $3060 ÷ 3 = 1020
600 + 240 = 840
1020 - 840 = 180

42 1050 + 150 = 1200
1200 ÷ 5 = 240
240 x 2 = 480
480 - 150 = 330

43a $1 + $1.40 = $2.40
8 - 6 = 2
2 pears = $2.40
1 pear = $1.20

43b $1.20 x 6 + $1 = $8.20

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