NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2012

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Booklet A	**/ 30**
Booklet B	**/ 40**
Booklet C	**/ 30**

Total: / 100

Name: _____ ( )

Class: Primary 4 ( )

Date: _____

Parent's Signature:_____

Any query on marks awarded should be raised by 21 May 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. YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

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. Which one of the following is a factor of 84?

(1) 9 (2) 8

(3) 3 (4) 5

2. Find the value of 1427×8.

(1) 11 414 (2) 11 416

(3) 11 756 (4) 11 776

3. The height of a giraffe is about _____.

(1) 3 cm (2) 30 cm

(3) 3 m (4) 30 m

4. Which one of the following fractions is the same as $\frac{8}{5}$?

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

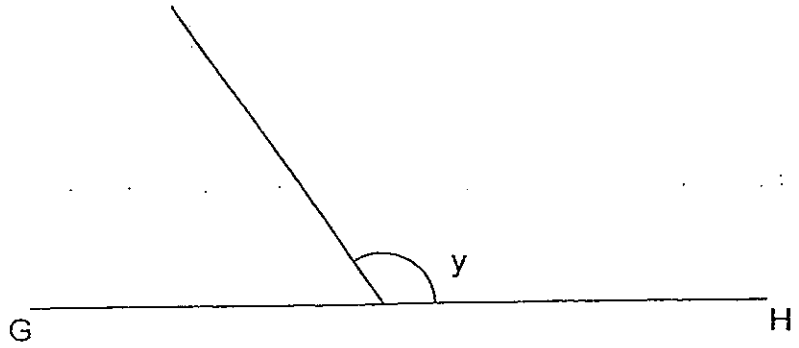
(3) $1\frac{3}{5}$ (4) $1\frac{4}{5}$

5. Express $\frac{21}{9}$ as a mixed number in its simplest form.

(1) $2\frac{2}{9}$ (2) $2\frac{1}{3}$

(3) $2\frac{3}{9}$ (4) $2\frac{2}{3}$

6. In the figure below, GH is a straight line. Which one of the following is the best estimate of $\angle y$?



(1) 55° (2) 90°

(3) 125° (4) 180°

7. Natalie is facing south-east. She makes a $\frac{3}{4}$ turn anti-clockwise. Which direction is she facing now?

(1) North-east (2) South-east

(3) North-west (4) South-west

8. Round off 129 029 to the nearest hundred.

(1) 129 000 (2) 129 020

(3) 129 100 (4) 130 000

9. What are the two common factors of 18 and 24?

(1) 2 and 6 (2) 3 and 8

(3) 2 and 9 (4) 3 and 12

10. Fandi bought 12 pens that cost \$3 each and 10 pencils that cost \$0.50 each. He gave the cashier a 50-dollar note. How much change did he get back?

(1) \$45 (2) \$19

(3) \$14 (4) \$ 9

11. Jane ate $\frac{2}{7}$ of a cake for breakfast and $\frac{1}{7}$ of it for tea. What fraction of the cake was left?

(1) $\frac{3}{7}$ (2) $\frac{3}{14}$

(3) $\frac{4}{7}$ (4) $\frac{11}{14}$

12. Renee ran a distance of $\frac{4}{5}$ km. James ran 3 times as far as her. What was the total distance that both of them ran?

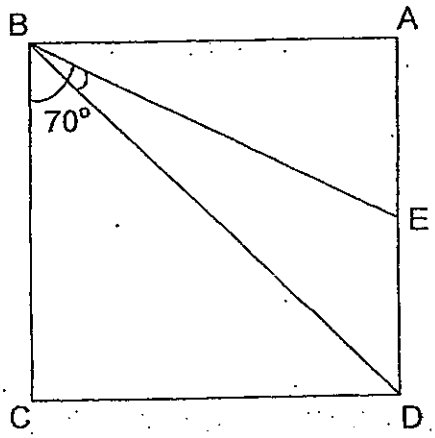
(1) $1\frac{3}{5}$ km

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

(3) $3\frac{1}{5}$ km

(4) $3\frac{4}{5}$ km

13. In the figure below, ABCD is a square. Given that $\angle CBE = 70°$, find $\angle DBE$.



(1) 20°

(2) 25°

(3) 35°

(4) 45°

14. Study the number pattern below. What is the missing number in the box?

177 , 457 , 757 , ☐ , 1 417 .

(1) 1 057 (2) 1 077

(3) 1 097 (4) 1 177

15. G is an even number. It is a common multiple of 4 and 9. Which one of the following is G?

(1) 18 (2) 36

(3) 46 (4) 54

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.

(Total: 40 marks)

16. In 39 642, the digit 3 stands for _____.

Answer _____

17. Write twenty-four thousand, seven hundred and twenty-seven in numeral.

Answer : _____

18. List all the factors of 45.

Answer : _____

19. Find the value of 3234 ÷ 6.

Answer : _____

20. Arrange the following numbers in descending order.

25 755, 27 757, 25 575, 27 577

Answer : _____

21. Write down all the common multiples of 4 and 6 that are smaller than 30.

Answer : _____

22. What is the missing fraction in the box?
Express your answer in its simplest form.

$$10 - \square = \frac{3}{8}$$

Answer _____

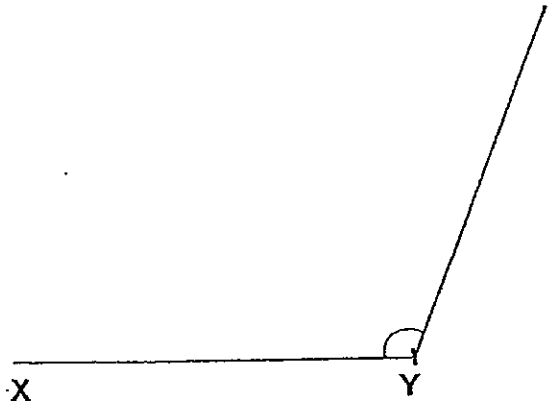
23. Rahmat baked 68 cupcakes. He packed them into boxes ~~of 8 cupcakes each.~~ Each box could contain up to 8 cupcakes. What was the minimum number of boxes he used to pack all the cupcakes?

Answer _____

24. Daniel had 18 cookies. He gave 3 cookies to Alice. He ate $\frac{1}{3}$ of the remaining cookies. How many cookies did Daniel eat?

Answer : _____

25. XY is a straight line. Construct an angle such that $\angle XYZ = 110°$
Mark and label the angle.



26. Container A contains $\frac{7}{9}$ litres of water.

Container B contains $\frac{2}{3}$ litres of water.

Find the total amount of water in both containers. Express your answer in its simplest form.

Answer : _____ litres

27. Mrs Lee is 40 kg. Her son is $7\frac{1}{6}$ kg lighter than her. Find the total mass of Mrs Lee and her son. Express your answer in its simplest form.

Answer : _____ kg

28. Tommy has 28 marbles. Tommy has $\frac{2}{5}$ as many marbles as Alice. How many marbles does Alice have?

Answer . _____

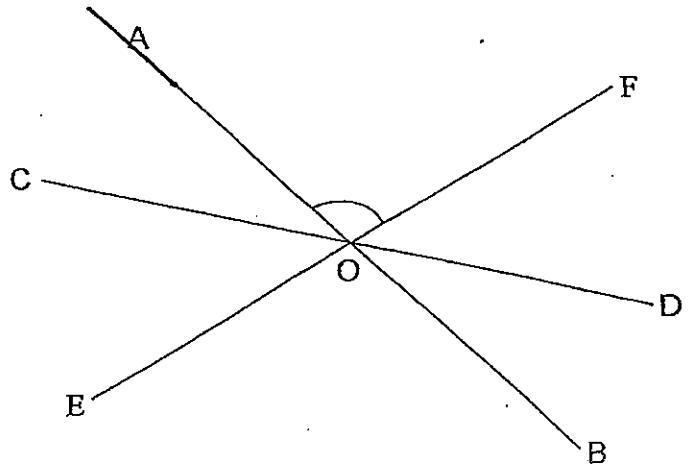
29. Rafie has 24 765 stamps. His uncle gives him another 1047 stamps. How many stamps does Rafie have now? Round off your answer to the nearest thousand.

Answer . _____

30. In the figure below, AB, CD and EF are straight lines. They meet at the centre marked 'O'

a) Name the marked angle in the figure below.

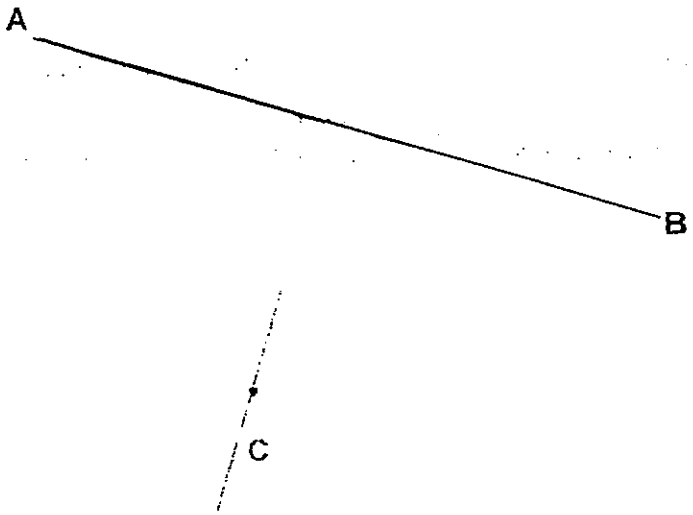
b) Measure the marked angle.



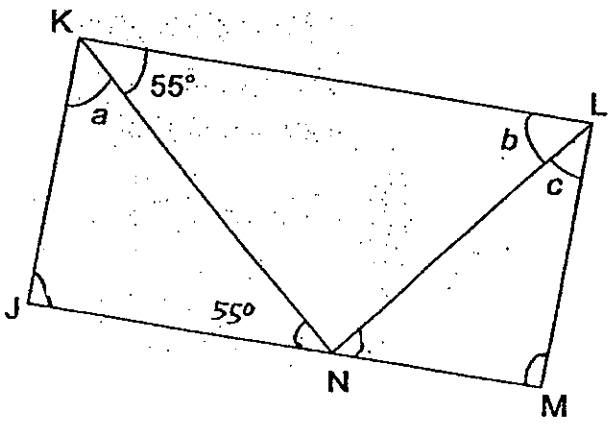
Answer : a) ∠_____

b)_____°

31. The figure below shows a line AB and a point C. Draw a line perpendicular to AB passing through point C.



32. In the figure below, JKLM is a rectangle. Given that $\angle NKL = 55°$ find the sum of $\angle a$, $\angle b$ and $\angle c$.



Answer : _____°

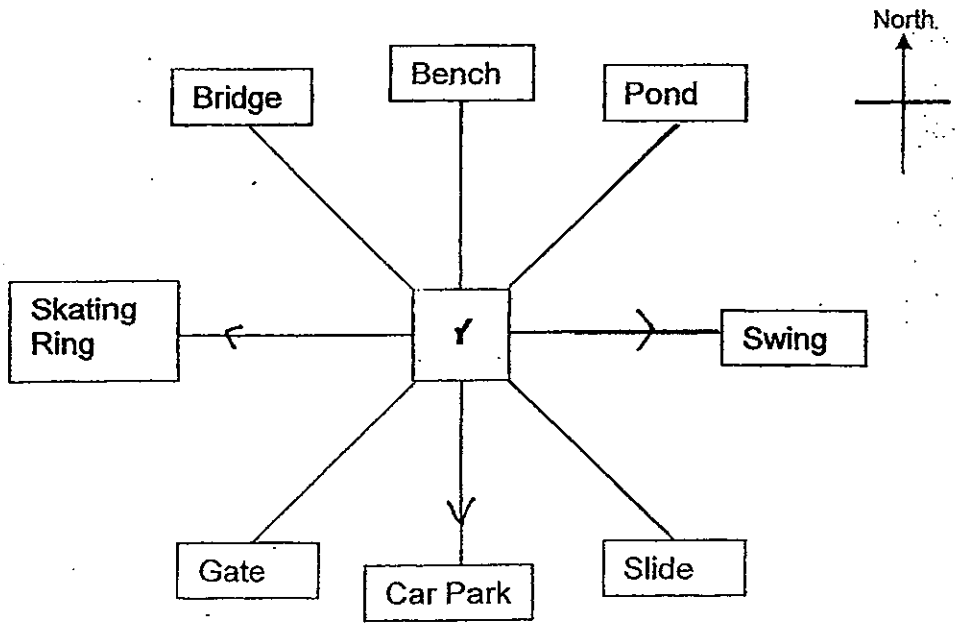
33. Y is a number $\frac{2}{7}$ of Y is 8. What is twice of Y?

Answer : _____

34. Every time Nigel saved 60¢, his father put another 30¢ into his savings. When Nigel had $13.50 in his savings, how much of it had been put in by his father?

Answer :$ _____

35. The diagram below shows the different locations in a park.



Anna is standing at the spot marked with a Y and is facing the swing.

She makes a 180° turn anti-clockwise and then a $\frac{3}{4}$ turn clockwise.

Which location is she facing now?

Answer _____

Section C

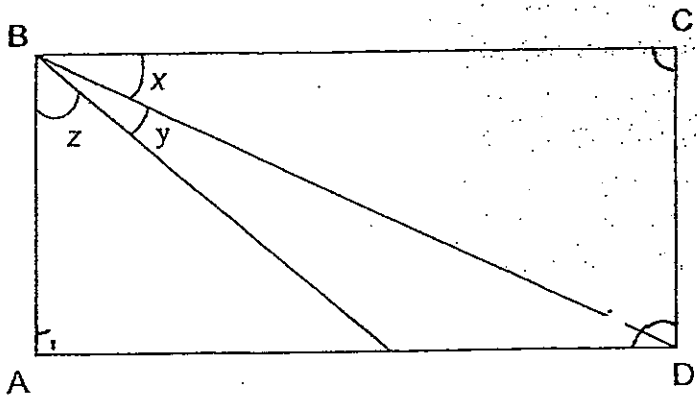
Questions 36 to 37 carry 3 marks each and questions 38 to 43 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(Total: 30 marks)

36. Claire bought $\frac{3}{4}$ kg of prawns on Monday. She bought $\frac{5}{6}$ kg more prawns on Tuesday than on Monday. What was the total mass of prawns she bought on both days? Express your answer in its simplest form.

Ans: _____ [3]

37. In the figure below, ABCD is a rectangle. $\angle y$ is $\frac{1}{2}$ of $\angle x$. $\angle y$ is $\frac{2}{3}$ of $\angle z$. Find $\angle z$.



Ans: _____ [3]

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38. Ahmad scored 84 marks for his Science test. Stella scored $\frac{2}{3}$ of Ahmad's score. Stellar scored $\frac{7}{8}$ of Raja's score. What was the total marks that the three children scored?

Ans: _____ [4]

39. Christina had \$200. She spent $\frac{2}{5}$ of her money on a pair of skates. She also bought a book that cost $\frac{1}{8}$ of what she had paid for the skates. How much money had she left?

Ans : _____ [4]

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40. Auntie Lucy received $22 for every frying pan she sold. She also received a bonus of $85 for every 10 frying pans she sold. She sold 139 frying pans. How much money did she receive altogether?

Ans: _____ [4]

41. There was a total of 80 pens and pencils in Ace Stationery Shop. There were 4 times as many pencils as pens. After 34 pencils and some pens were sold, there were 3 times as many pencils as pens left. How many pens were sold?

Ans: _____ [4]

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42. Andy, Benny and Calvin have a total of 2040 stamps. Andy has twice as many stamps as Benny. Benny has 200 stamps more than Calvin. How many stamps does Benny have?

Ans : _____ [4]

43. Mrs Tan bought ~~a few~~ some packets of sweets. She gave 3 sweets to each of the 15 girls and 2 sweets to each of the 19 boys in her class. She gave her son the same number of sweets that she had given to all the boys and girls in her class. She had 4 sweets left in the end.

(a) How many sweets did Mrs Tan give her class?

(b) How many packets of sweets did Mrs Tan buy if there were 5 sweets in one packet?

Ans: (a)_____ [2]

(b)_____ [2]

End of Paper

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Nanyang Primary School
Semestral Assessment 1 – 2012
Answer Key for P4 Mathematics
Paper 1

1)	3	6)	3	11)	3
2)	2	7)	4	12)	3
3)	3	8)	1	13)	2
4)	3	9)	1	14)	2
5)	2	10)	4	15)	2

16. 30000

17. 24727

18. 1, 3, 5, 9, 15, 45

19. 539

20. 27757, 27577, 25755, 25575

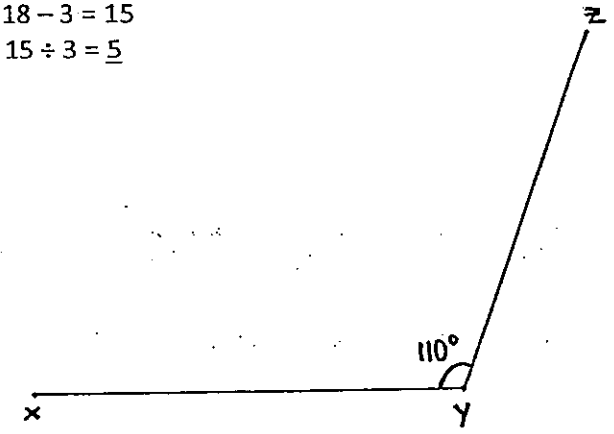
21. 12, 24

22. $9^{5}/_{8}$

23. $68 \div 8 = 8R4$
$8 + 1 = \underline{9 \text{ boxes}}$

24. $18 - 3 = 15$
$15 \div 3 = \underline{5}$

25.



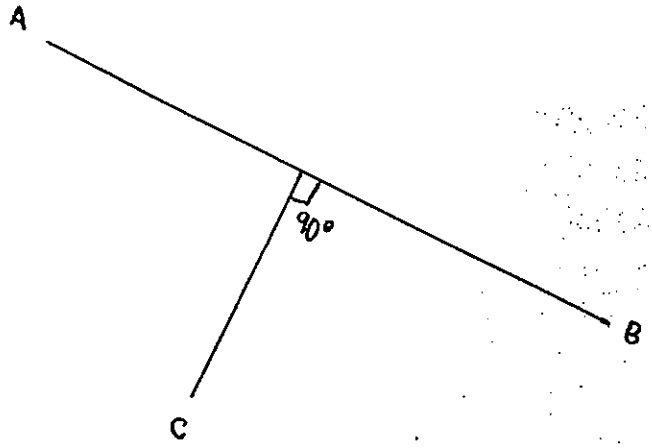
26. $^{7}/_{9} + {}^{2}/_{3} = \underline{1^{4}/_{9}}$

27. $40 - 7^{1}/_{6} = 32^{5}/_{6}$
$40 + 32^{5}/_{6} = \underline{72^{5}/_{6}}$

28. $28 \div 2 = 14$
$14 \times 5 = \underline{70}$

29. $24765 + 1047 = 25812 \approx \underline{26000}$

30. (a) AOF
    (b) 106

31. 

32. 90 – 55 = 35
    180 – 90 – 35 = 55
    180 – 90 – 55 = 35
    90 – 35 = 55
    35 + 35 + 55 = <u>125</u>

33. 8 ÷ 2 = 4
    4 x 7 = 28
    28 x 2 = <u>56</u>

34. 60¢ + 30¢ = 90¢
    $13.50 = 1350¢
    30¢ x 15 = 450¢
    450¢ = <u>$4.50</u>

35. Carpark

36. $^{3}/_{4} + {}^{5}/_{6} = {}^{19}/_{12}$
    $^{9}/_{12} + {}^{19}/_{12} = {}^{28}/_{12}$
    = <u>$2{}^{1}/_{3}$ kg</u>

37. 9u → 90
    1u → 10
    3u → <u>30°</u>

38. $^{2}/_{3}$ x 84 = 56 (stella)
    $^{8}/_{7}$ x 56 = 64 (raja)
    84 + 56 + 64 = <u>204 marks</u>

39. $200 ÷ 5 = $40
    $40 x 2 = $80
    $80 ÷ 8 = $10
    $80 + $10 = $90
    $200 - $90 = <u>$110</u>