NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2007

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	**/ 40**
Section B	**/ 40**
Section C	**/ 20**

Total:	**/ 100**

Name: _____ ( )

Class: Primary 4 ( )

Date: 10th May 2007

Parent's Signature: _____

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

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Section A

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

(Total: 40 marks)

1. Which of the following is the best estimate for $6490 \div 7$?

(1) $6300 \div 7$ (2) $6500 \div 10$
(3) $7000 \div 7$ (4) $7000 \div 70$

2. Complete the number pattern.

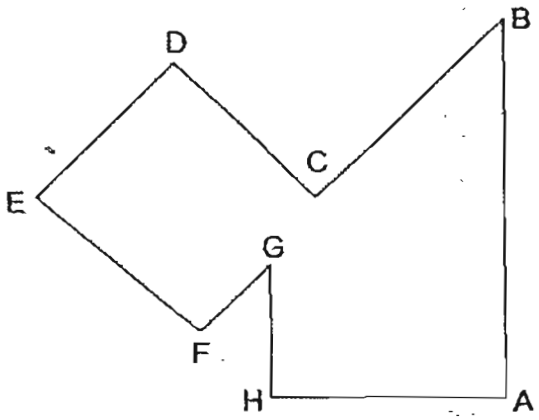
9492, 9392, _____, 9042, 8792

(1) 9142 (2) 9192
(3) 9242 (4) 9292

3. Julie is facing South. She then makes a $\frac{3}{4}$ turn clockwise, followed by a $\frac{1}{2}$ turn anti-clockwise. In which direction is she facing after making these turns?

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

4. Study the figure below.



Which of the following pairs of statements is true?

(1) AH // BC and EF ⊥ DE

(2) EF // DC and DC ⊥ CB

(3) FG // CB and GH ⊥ HA

(4) AB // GH and EF ⊥ DE

5. Which of the following are factors of 42?

(1) 2 and 4
(2) 3 and 7
(3) 6 and 8
(4) 9 and 14

6. Which of the following are the common factors of 21 and 91?

(1) 2 and 3
(2) 3 and 7
(3) 6 and 7
(4) None of the above

7. What is the sum of the 3rd and the 6th multiples of 8?

(1) 24
(2) 48
(3) 72
(4) 82

8. The numbers, 108, 117, 126 and 135, are common multiples of _____.

(1) 2 and 3
(2) 3 and 9
(3) 9 and 18
(4) 9 and 27

9. Sally bought 128 boxes of cupcakes. Each box contained 3 cupcakes. If she placed 5 cupcakes on each plate, how many plates would she need?

(1) 72
(2) 75
(3) 76
(4) 77

10. There are 35 pupils in a class. How many more girls than boys are there in the class if $\frac{3}{5}$ of the pupils are girls?

(1) 7
(2) 14
(3) 21
(4) 35

11. At a party, the children drank 7 bottles of orange juice. If there were $1\frac{1}{2}l$ of orange juice in each bottle, how many litres of orange juice did the children drink altogether?

(1) $7\frac{1}{2}$
(2) $8\frac{1}{2}$
(3) $10\frac{1}{2}$
(4) 21

12. What is the missing number in the box?
Give your answer in its simplest form.

$$\square - \frac{1}{2} = \frac{5}{6}$$

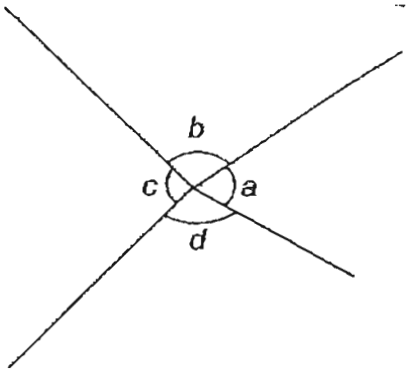
(1) $\frac{1}{3}$ (2) $\frac{5}{12}$

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

13. Round off 16 550 to the nearest hundred.

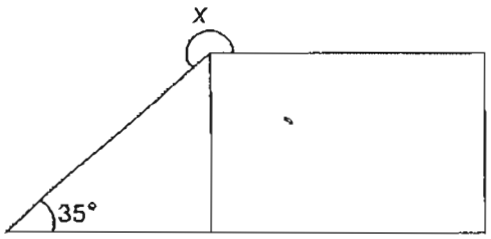
(1) 16 000 (2) 16 500
(3) 16 600 (4) 17 000

14. In the figure below, which is a right angle?



(1) $\angle a$ (2) $\angle b$
(3) $\angle c$ (4) $\angle d$

15. The figure below consists of a rectangle and a triangle. Find $\angle x$.



(1) 215°
(2) 225°
(3) 235°
(4) 270°

16. Olivia's mother was 4 times Olivia's age 4 years ago. If their total age now is 48, how old is Olivia now?

(1) 11
(2) 12
(3) 14
(4) 15

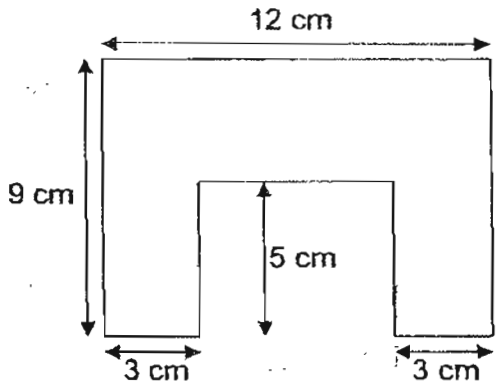
17. There are 375 chocolate coins in 1 packet. How many chocolate coins will James have if he buys 32 packets?

(1) 11 250
(2) 11 900
(3) 12 000
(4) 13 000

18. What is the value of $3\frac{6}{7} + 1\frac{4}{7}$?

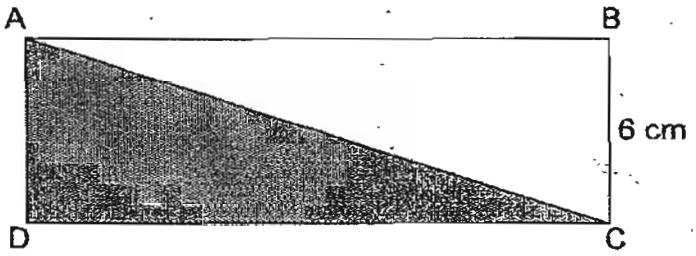
(1) $2\frac{2}{7}$
(2) $4\frac{2}{7}$
(3) $4\frac{3}{7}$
(4) $5\frac{3}{7}$

19. What is the area of the figure below?



(1) 54 cm^2 (2) 78 cm^2
(3) 84 cm^2 (4) 93 cm^2

20. ABCD is a rectangle as shown below. The area of the shaded region is 54 cm^2. Find the length of the rectangle.



(1) 9 cm (2) 16 cm
(3) 18 cm (4) 36 cm

Section B

Questions 21 to 40 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)

21. In 481 500, the digit 1 is in the _____ place.

Answer : _____

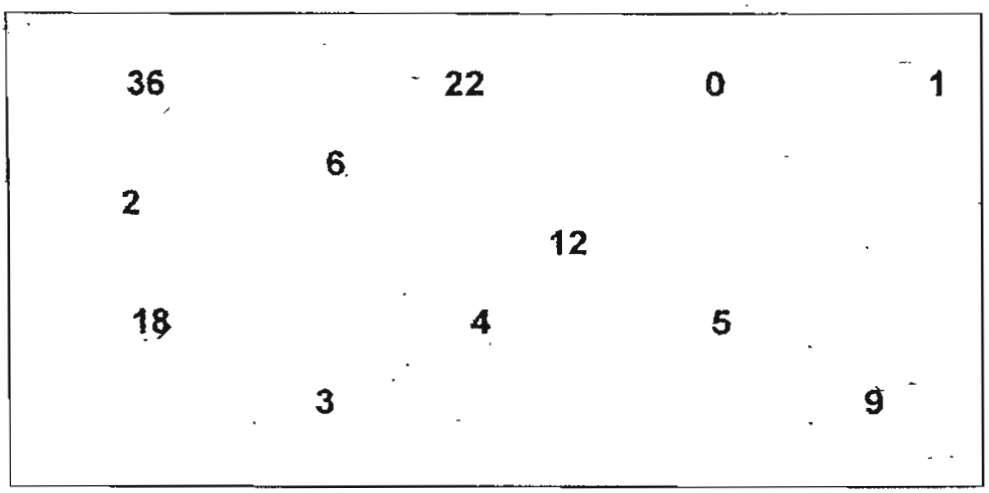
22. Write 19 412 in words.

_____

23. Find the product of 567 and 73. Round off the answer to the nearest thousand.

Answer : _____

24. In the box below, circle all the factors of 18.



25. Express $\frac{51}{6}$ as a mixed number in its simplest form.

Answer : _____

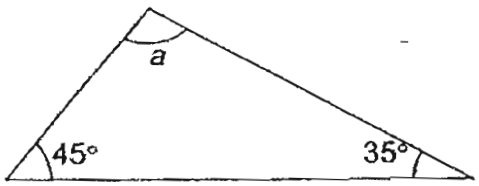
26. Express $2\frac{1}{3}$ as an improper fraction in its simplest form.

Answer : _____

27. Class A has 20 pupils and Class B has 25 pupils. In each class, the teacher divides the pupils into groups with equal number of pupils. If both classes have the same number of groups, how many groups will there be in each class?

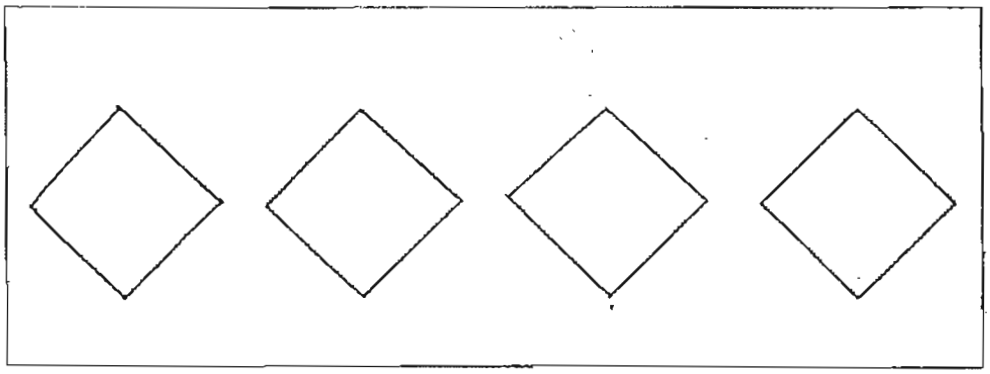
Answer : _____

28. Express $\angle a$ as a <u>fraction</u> of the sum of all the angles in the triangle. Give your answer in its simplest form.



Answer : _____

29. Colour the shapes to represent the improper fraction $\frac{5}{2}$.



30. Arrange the numbers in ascending order.

12 328,	13 200,	12 437,	13 189,	12 278

_____

31. Matthew has 133 erasers. After giving away some of his erasers to his friends, he has 5 erasers left. If each of his friends receives 8 erasers, how many friends does Matthew have?

Answer : _____

32. Find the value of $1\frac{1}{3} - \frac{3}{4}$.

Answer : _____

222

33. What is the missing number in the box?

$$\frac{6}{5} \times 30 = \square \times 4$$

Answer : _____

34. What must be added to $\frac{7}{12}$ to get 2 wholes? Give your answer in its simplest form.

Answer : _____

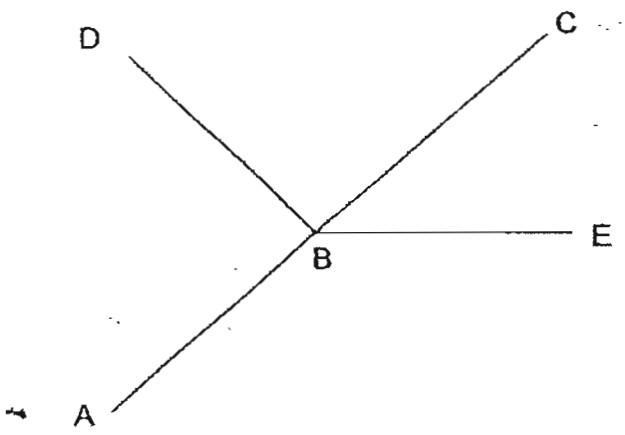
35. Pauline spent $\frac{1}{8}$ of her salary on a watch. If her salary was $1600, how much money had she left?

Answer : $_____

36. Bala has 1395 marbles. They are packed into bags of 5. He decides to re-pack them into bags of 3. How many more bags does he need if he packs them in bags of 3?

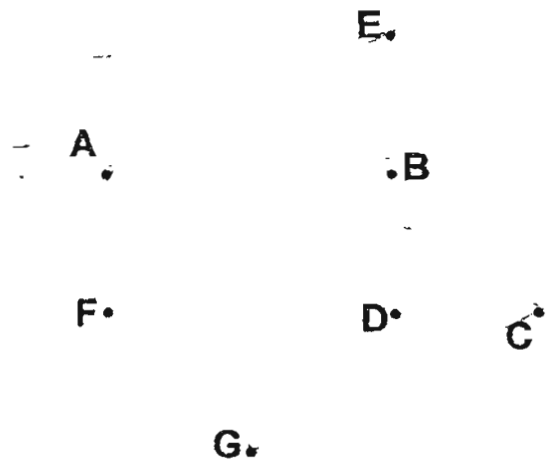
Answer : _____

37. ABC, BD and BE are straight lines. Name the angle(s) ~~that is equal to 45°~~ ave less than 90°.

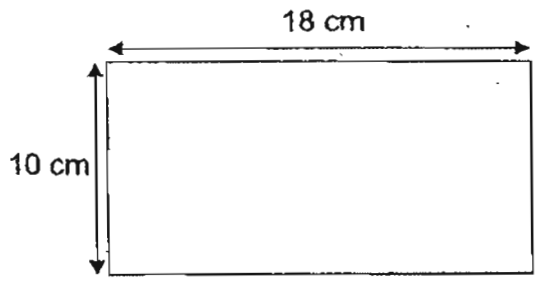


Answer : _____.

38. Join four of the dots below to form a square. The four dots should form the corners of the square.



39. The perimeter of a square is the same as the perimeter of the rectangle shown below. What is the length of each side of the square?



Answer : _____ cm

40. Ali had $\frac{2}{5}$ kg of lychees. Tami had $\frac{3}{10}$ kg more lychees than Ali. How many kilograms of lychees did Tami have left if she gave away $\frac{1}{2}$ kg of lychees to her friend? (Give your answer in its simplest form)

Answer : _____kg

Section C

Questions 41 to 45 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: 20 marks)

41. A packet of sweets is to be shared by some children. The number of sweets in the packet is more than 50 but fewer than 120. The sweets can be shared by 3, 4 or 5 children equally without any remainder. How many sweets are there in the packet?

Answer : _____

42. Siva bought $945 worth of gift boxes at $7 each. He had to throw some away as they were damaged. He sold the rest at $9 each and collected $1116. How many gift boxes did he throw away?

Answer : _____

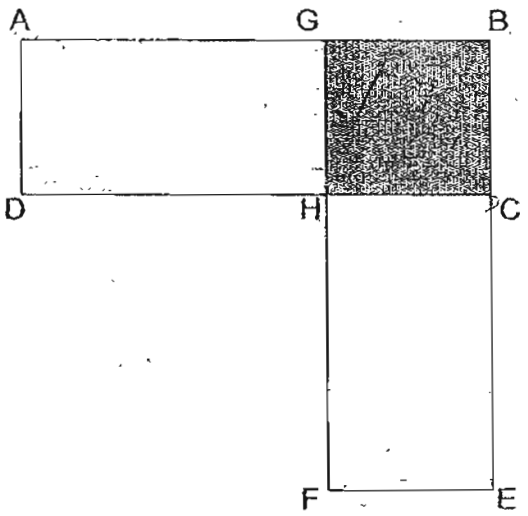
43. Tommy had a wooden pole. $\frac{2}{3}$ of it was painted white and $\frac{1}{3}$ of the remainder was painted blue. The rest was painted yellow. What fraction of the pole was painted yellow?

Answer : _____

44. Jimmy, Tom and Harry had some Digimon cards. Jimmy received 7 cards from Tom and 10 cards from Harry. After receiving the cards, Jimmy had 3 times as many cards as Tom and Tom had twice as many cards as Harry. If they had 81 cards altogether, how many cards did Tom have at first?

Answer : _____

45. Two identical rectangles, ABCD and EFGB, overlap each other as shown in the figure below. The area of the figure is 132 cm^2. If the shaded part is a square and the area of each rectangle is 84 cm^2, find the length of DH.



Answer : _____

END OF PAPER

Setters: Mavis Tan
Mohammad

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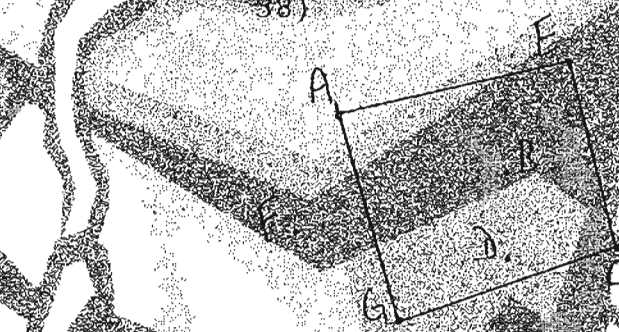
ANSWER SHEET

NANYANG PRIMARY SCHOOL - PRIMARY 4 MATHEMATICS 2007
SEMESTRAL ASSESSMENT (1)

1. 1
2. 4
3. 4
4. 3
5. 2
6. 4
7. 3
8. 2
9. 3
10. 1
11. 3
12. 3
13. 3
14. 3
15. 1
16. 3
17. 3
18. 4
19. 2
20. 3
21. thousands
22. nineteen thousand four hundred and twelve
23. 41000
24. 18,2,6,3,1,9
25. 8½
26. 7/3
27. 5
28. 5/9
29. ◆ ◆ ◆
30. 12278,12323,12437,13189,13200

31) 16
32) 7 1/2
33) 9
34) 1 5/12
35) $1400
36) 186
37) ∠ABD
38)



39) 14cm

40) Ali → 4/10
Tami → 7/10
4/10+3/10=7/10
7/10-5/10=2/10
2/10 → 1/5kg

41) There are 60 sweets in the packet.

42) 945÷7=135
1116÷9=124
135-124=11
He threw away 11 boxes.

43) 2/9 of the pole was painted yellow.

44) 81÷9=9
9x2=18
18+7=25

45) 84+84=168
168-132=36
36÷6=6
84÷6=14
14-6=8
The length is 8cm.