NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2010
PRIMARY 6

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Short Answer Questions (20 marks)

Total Time for Paper 1: 50 minutes

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 1-15.
6. You are not allowed to use calculator for Paper 1.

Marks Obtained

Paper 1	Booklet A		/ 40
	Booklet B		
Paper 2			/ 60
Total			/ 100

Name : _____ ( )

Class : 6_____

Date : Parent's Signature :_____

Nan Hua Primary School
Continual Assessment 1 – 2010
Mathematics - Primary 6

BOOKLET A

Questions 1 to 10 carry 1 mark each. Questions 11 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 correct oval on the OAS (20marks).

1. What is the value of digit '2' in 4.062?

   (1) 2×1
   (2) 2×0.1
   (3) 2×0.01
   (4) 2×0.001

2. Express $3\frac{3}{4}$ km in metres.

   (1) 3.75 m
   (2) 37.5 m
   (3) 375 m
   (4) 3750 m

3. $4 \div \frac{2}{5}$ is the same as _____.

   (1) 0.1
   (2) 0.2
   (3) 10
   (4) 20

4. Round off 869.253 to the nearest **hundredth**.

   (1) 869.3
   (2) 869.25
   (3) 869.30
   (4) 869.250

5. $1\frac{3}{4}$ expressed as a ratio is $\square$: 4

(1) 6

(2) 7

(3) 8

(4) 9

6. Express $\frac{17}{100}$ as a percentage

(1) 1700 %

(2) 17 %

(3) 1.7 %

(4) 1.57 %

7. The ratio of Jim's money to Peter's money is 3:7. They have $100 altogether. How much more money has Peter?

(1) $30

(2) $40

(3) $50

(4) $70

8. Jack sold 85% of the 120 tickets. How many tickets had he left?

(1) 120

(2) 102

(3) 35

(4) 18

9. Simplify: $6k - 3 + 5k - k + 2$

(1) $10k - 1$

(2) $10k + 1$

(3) $11k + 5$

(4) $11k - 5$

10 Tom, Dick and Harry have 48, 64 and 32 stamps respectively. What is the ratio of Tom's stamps to Harry's stamps to Dick's stamps?

(1) 4 : 3 : 2

(2) 3 : 4 : 2

(3) 3 : 2 : 4

(4) 2 : 3 : 4

11. How many cubes of side 2cm can be cut from a cuboid of 12cm by 10cm by 8cm?

(1) 960

(2) 480

(3) 240

(4) 120

12. There are $\frac{2}{5}$ as many girls as boys in a class.
What fraction of the pupils in the class are boys?

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

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

(3) $\frac{5}{7}$

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

13. Mrs Tan bought a kettle for $69 after a discount of 40%. What was the price of the kettle before the discount?

(1) $ 41.40

(2) $ 96.60

(3) $ 115.00

(4) $ 172.40

14. The average height of 2 girls is 1.50 m. The difference in their height is 0.4 m. What is the height of the taller girl?

(1) 1.10 m

(2) 1.30 m

(3) 1.54 m

(4) 1.70 m

15. John is $\frac{1}{5}$ of his father's age 6 years ago.
Their total age now is 60. How old will John's father be in 2 years' time?

(1) 42

(2) 47

(3) 48

(4) 53

Nan Hua Primary School
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Mathematics - Primary 6

BOOKLET B

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated (10 marks).

16. Find the value of $16 - 12 \div 3 \times 2$

Answer: _____

17. Ann is n years old. James is 3 times as old as Ann. Sue is 3 years older than James. Express Sue's age in terms of ~~Ann.~~ n

Answer: _____ years old

18. Figure 1 shows a cube. The side of the cube is 3 cm. Some of these cubes are used to form the solid shown in Figure 2. Find the volume of the solid.

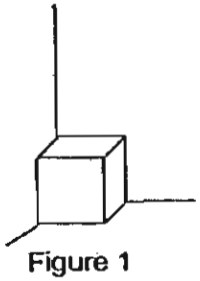


Figure 1

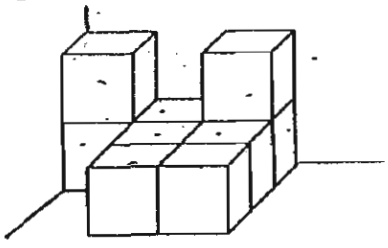
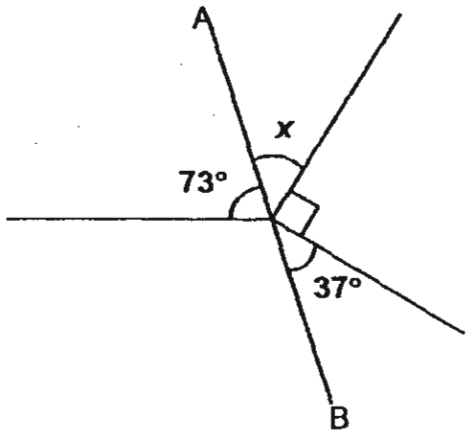


Figure 2

Answer: _____ cm^3

19. In the figure below, not drawn to scale, AB is a straight line. Find $\angle x$.

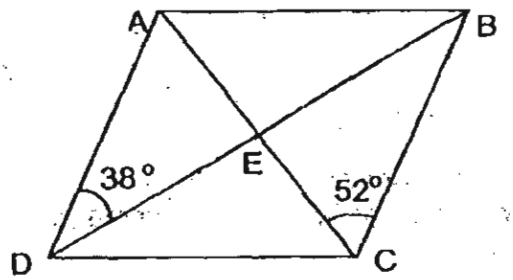


Answer: _____ °

20. A flask holds $2\frac{3}{4}$ litres of syrup. It is poured into 5 similar bottles.
The capacity of each bottle is _____.

Answer: _____ *l*

21 In the figure (not drawn to scale), ABCD is a rhombus. Find $\angle AEB$.



Answer: _____ °

22 Wayne was given \$10. He spent $\frac{1}{4}$ of it on food and $\frac{1}{2}$ of the remainder on games. How much had he left?

Answer: \$_____

23 Rick and his brother shared 2 pizzas. Rick ate twice as much as his brother. What fraction of the pizzas did his brother eat?

Answer:_____

24 $\frac{6}{7}$ of a number is 12. What is the number?

Answer:_____

25 In a Math quiz, the average score of a group of 12 pupils is 7 marks while the average score of another group of 8 pupils is 9 marks. What is the average score of these 20 pupils?

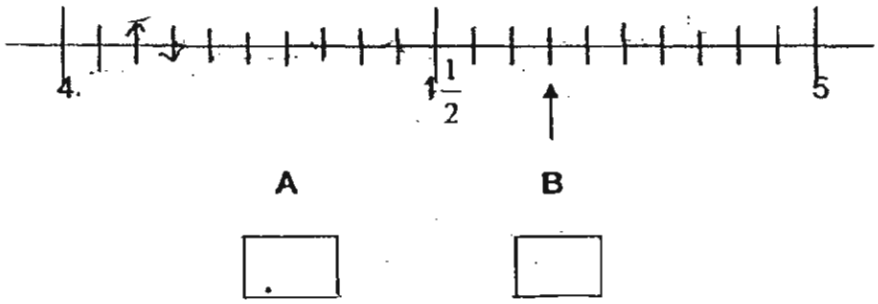
Answer:_____

Questions 26 to 30 carry 2 marks each. Show your workings 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. (10 marks)

26. The ratio of the area of A to B is 1:2. If 30% of B overlaps with A, what percentage of the whole figure is not overlapped?

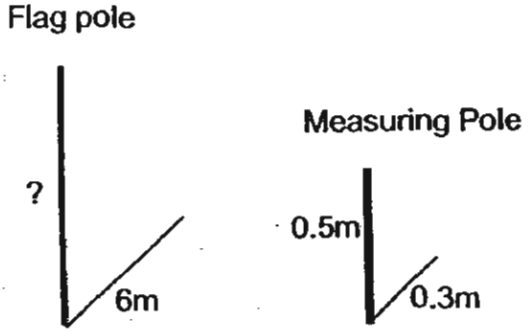
Answer:_____

27. What is the sum of A and B? (Express your answer in decimal)



Answer:_____

28 At 3pm, a flag pole and a measuring pole cast shadows (not drawn to scale) as shown below. What is the height of the flag pole?



Answer :_____m

29 Dan's salary and May's salary are in the ratio of 4:5. If Dan's salary is increased by 50%, by what percentage must May's salary be increased so that both their salaries will be the same?

Ans: _____%

30 Triangle A is $\frac{5}{8}$ of triangle B and triangle B is $\frac{2}{5}$ of triangle C. What is the ratio of A to B to C?

Ans: _____

End - of - Paper

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2010
PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

5 Short Answer Questions (10 marks)

13 Structured / Long Answer Questions (50 marks)

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 and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60

Name : _____ ( )

Class : 6_____

Date : Parent's Signature : _____

Questions 1 to 5 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated (10 marks).

1. What is the sum of $\frac{3}{7}$ and $\frac{3}{8}$? Round off the answer to the nearest tenth.

Answer: _____

2. Express $1\frac{3}{8}$ as a percentage.

Answer: _____

3. A sum of money was shared between Jack and Jill in the ratio 3: 8. Jill gave half of her share to Jack. What is the new ratio of Jack's share to Jill's share?

Answer: _____

4. $\frac{3}{5}$ of a school population are girls. There are 120 more girls than boys. What is the total school population?

Answer: _____

5. 30% of Joe's sum of money is 50% of Kim's sum of money. If Kim has $72, how much money has Joe?

Answer: _____

Section C (50 marks)

For questions 6 to 18, show your workings clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

6. A man saves 20% of his income. If his income is increased by 15%, his savings is increased by $24. Find his income.

Answer: _____ [3]

7. Amos' salary is 20% more than Steve's but 20% less than Joe's. If their total salary is $2 220, find Amos' salary.

Answer: _____ [3]

8. Tap A takes 5 minutes to fill $\frac{1}{4}$ of a tank. Tap B takes10 minutes to fill up the same tank to its brim. If both taps A and tap B are turned on simultaneously, how long does it take to fill up the whole tank? (Leave your answer as a fraction in the simplest form)

Answer: _____ [3]

9. The ratio of the sides of a right-angled triangle is 5:4:3. If its perimeter is 24cm, find its area.

Answer: _____ [3]

10. 5 sharpeners and 8 books cost $49. If 1 sharpener and 1 book cost $u, find the cost of 9 books.

Answer: _____ [3]

11. There were 32 tourists on a bus. $\frac{2}{5}$ of the men and $\frac{1}{4}$ of the women were from Singapore. The total number of tourists who came from Singapore was 11. How many men came from Singapore?

Answer: _____ [4]

equal number of

12. Jan and Kay had equal number of sweets and chocolates. Jan ate12 sweets and Kay ate 18 chocolates and then the ratio of Jan's sweets to chocolates became 1:7 and the ratio of Kay's sweets to chocolates became 1:4. How many sweets did Jan have at first?

Answer: _____ [4]

13. In a school Art Club, the ratio of the number of boys to the number of girls was 3:2. After 2 boys and 3 girls joined the club, the ratio became 4:3. How many girls were there at first?

Answer: _____ [4

14. On a farm, there are some chickens and goats. A boy counts the animals and finds that they have 220 eyes and 360 legs. What fraction of the total animals are goats?

Answer: _____ [4]

15. Curry puff is sold at 80 cents each. For every 3 curry puffs, Mrs Lim can buy one more curry puff at a discount of 50%. If Mrs Lim has $50, how many curry puff can she buy?

Answer: _____ [4]

16. Jean scored 50 marks for her first CA1. She sat for 3 more tests subsequently. If she scored 10% more for each subsequent test, what is her average score for the 4 tests? (correct to 2 decimal places)

Answer: _____ [5]

17. Study the pattern below.

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

[1]

a) Complete the pattern of the 5th line by writing your answers in the brackets provided above. [1m]

b) What is the sum of numbers in the 5th line?

c) What is the sum of the numbers in the 50th line?

Answer: (b) _____ [1]

(c) _____ [3]

18. Dolly had 80 more stickers than Jenny. Dolly gave 25% of her stickers to Jenny. Jenny in return gave 60% of her stickers to Dolly. In the end, Dolly had 100 stickers more than Jenny. How many stickers did Dolly have at first?

Answer: _____ [5]

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : NAN HUA PRIMARY
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16
4	**4**	**3**	**2**	**2**	**2**	**2**	**4**	**1**	**3**	**4**	**3**	**3**	**4**	**3**	**8**

17)(3a+3) **18)243m^3** **19)53°** **20)11/20** **21)90°**

22)$3.75 **23)1/3** **24)14** **25)7.8 marks** **26)75%**

27)8.95 **28)10m** **29)20%** **30)5:8:30**

Paper 2

1)0.8 **2)137.5%** **3)7:4** **4)600** **5)$120**

6)$800 **7)$720** **8)$6\frac{2}{3}$min** **9)24cm^2** **10)$(147-15u)**

11)8 men **12)34 sweets** **13)12** **14)7/11** **15)71 curry puffs**

16)58.01 marks **17)a)2,3,4,5,5,4,3,2** **b)30** **c)2550**

18)116 stickers