



**NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2015
PRIMARY 4**

MATHEMATICS

Section A: 20 Multiple Choice Questions (40 marks)

Section B: 20 Questions (40 marks)

Section C: 5 Questions (20 marks)

Total Time: 1 hour 45 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 and show your workings clearly.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1 – 20.

Marks Obtained

Section A		/ 40
Section B		/ 40
Section C		/ 20
Total		/ 100

Name : _____ ()

Class : _____

Date : 8 May 2015

Parent's Signature : _____

Section A (20x2marks)

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. 9806 is the same as _____

(1) $98 + 6$

(2) $900 + 80 + 6$

(3) $9000 + 80 + 6$

(4) $9000 + 800 + 6$

()

2. Which of the following is a multiple of 4?

(1) 34

(2) 54

(3) 76

(4) 86

()

3. When a number is divided by 8, the quotient is 184. What is the number?

(1) 23

(2) 176

(3) 192

(4) 1472

()

4. What is the product of 678 and 14?

(1) 2390

(2) 3390

(3) 8492

(4) 9492

()

5. Which one of the following numbers is 15 010 when rounded off to the nearest ten?

(1) 15 106

(2) 15 016

(3) 15 014

(4) 15 004

()

6. 8 similar packets of sugar have a mass of 2448g. What is the mass of 5 such packets of sugar?

(1) 306 g

(2) 1530 g

(3) 7344 g

(4) 12240 g

()

7. Which of the following fractions is nearest to 1?

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

(2) $\frac{4}{7}$

(3) $\frac{5}{8}$

(4) $\frac{7}{10}$

()

8. 7 children shared 8 cakes equally. What fraction of the cake did each child get?

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

(2) $\frac{7}{8}$

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

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

()

9. Jessie gave $\frac{3}{5}$ of her stamps to Woody and had 42 stamps left. How many stamps did she give Woody?

(1) 8

(2) 40

(3) 63

(4) 120

()

10. Amy, Betty and Cathy bought some cookies. Amy bought $\frac{1}{3}$ kg of the cookies.

Betty bought $\frac{5}{6}$ kg of the cookies and Cathy bought 1 kg of cookies. How much cookies did Amy, Betty and Cathy buy altogether?

(1) $1\frac{1}{6}$ kg

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

(3) $2\frac{1}{6}$ kg

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

()

11. How many **quarters** are there in $4\frac{1}{2}$?

- (1) 9
- (2) 17
- (3) 18
- (4) 36

()

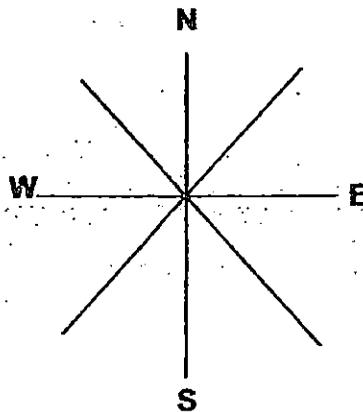
12. A group of children went for an excursion. $\frac{4}{7}$ of them were girls. There were 24 girls. How many children went for the excursion?

- (1) 6
- (2) 18
- (3) 42
- (4) 96

()

13. Stephen is standing in the middle of the 8-point compass facing North-east.

Where will he be facing if he makes a 135° anti-clockwise turn?



- (1) North-west
- (2) West
- (3) South-east
- (4) South

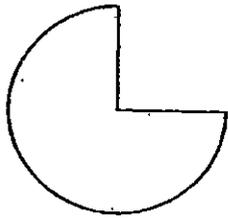
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14. Which of the following shapes below contains both parallel and perpendicular lines?

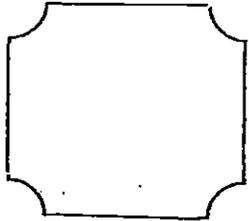
(1)



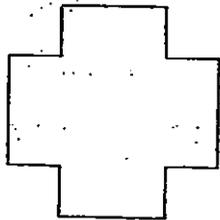
(2)



(3)

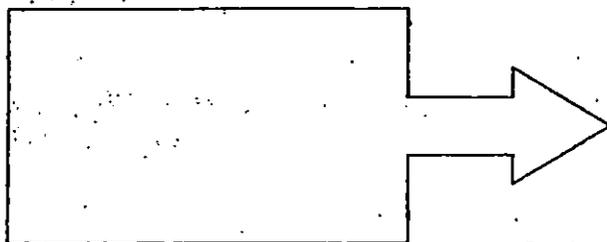


(4)



(3, 4)

15. How many angles inside this figure are right angles?



(1) 11

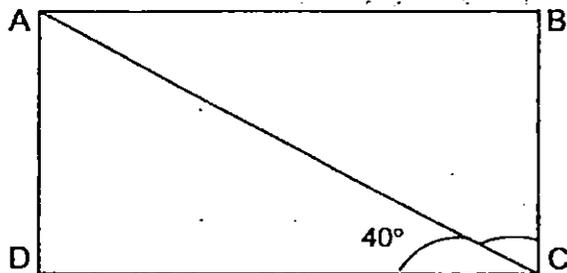
(2) 8

(3) 7

(4) 4

()

16. The figure ABCD is a rectangle. What is $\angle ACB$ if $\angle ACD$ is 40° ?



(1) 40°

(2) 50°

(3) 60°

(4) 90°

()

17. The length of a rectangle is 10 cm. Its breadth is half of its length. What is the area of the rectangle?

(1) 30 cm^2

(2) 50 cm^2

(3) 60 cm^2

(4) 200 cm^2

()

18. A rectangle is 15 cm long and 12 cm wide. $\frac{3}{4}$ of the rectangle is shaded green and the rest is shaded blue. What is the area of the rectangle that is shaded blue?

(1) 45 cm^2

(2) 54 cm^2

(3) 135 cm^2

(4) 180 cm^2

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19. A square of side 8 m has the same area as a rectangle. If the breadth of the rectangle is 4 m, what is its length?

(1) 8 m

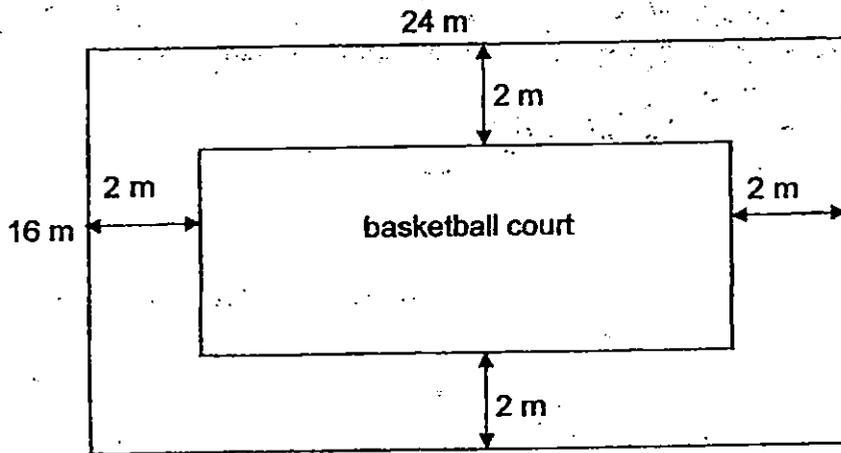
(2) 12 m

(3) 16 m

(4) 32 m

()

20. The basketball court has a 2 m path surrounding it. What is the area of the path?



(1) 80 m^2

(2) 144 m^2

(3) 240 m^2

(4) 384 m^2

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Section B (20 x 2marks)

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. Write 72 048 in words.

Answer: _____

22. Form the largest 4-digit even number with these digits 1, 3, 4 and 6.

Answer: _____

23. Peter added 100 to a number. He then divided the results by 4. His answer was 240. Find the number.

Answer: _____

24. Ken has 105 oranges. He packs them into paper bags. Each paper bag can hold a maximum of 8 oranges. What is the minimum number of such bags needed to pack all the oranges?

Answer: _____ paper bags

25. What is the sum of all the common factors of 12 and 18?

Answer: _____

26. The figure below, which is not drawn to scale, is made up of 5 identical squares. The perimeter of the figure is 36 cm. What is the length of each side of the square?



Answer: _____ cm

27. The area of a square is 64 m^2 . What is its perimeter?

Answer: _____ m

28. There were 1672 people at the community carnival. $\frac{5}{8}$ of them were children and the rest were adults. How many more children than adults were there at the carnival?

Answer: _____

29, Sharon bought 5 kg of flour. She used $\frac{1}{6}$ kg of the flour on Monday and $\frac{1}{3}$ kg of the flour on Tuesday. How much flour did she have left? Express your answer as a mixed number.

Answer: _____ kg

30. $\frac{3}{5}$ of a number is 75, what is the number?

Answer: _____

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

$$\frac{1}{2}, \frac{3}{10}, \frac{2}{5}$$

Answer: _____ , _____ , _____
greatest smallest

32. In a car park, there are 35 cars and motorcycles. If there are 120 wheels altogether, how many motorcycles are there?

Answer: _____ motorcycles

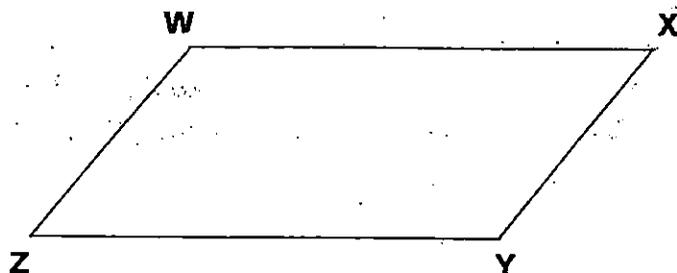
33. Benny has 36 game cards. He has 4 times as many game cards as Ariel. Charlie has 5 game cards fewer than Benny. How many game cards do they have altogether?

Answer: _____ game cards

34. Mrs. Tan bought some postcards for her friends. If she gave each of them 3 postcards, she would have 2 postcards left. If she gave each of them 4 postcards, she would be short of 2 postcards. How many postcards did she buy?

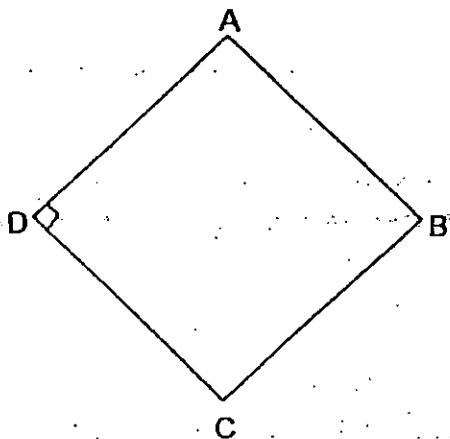
Answer: _____ postcards

35. How many pairs of parallel lines are there in the figure WXYZ?



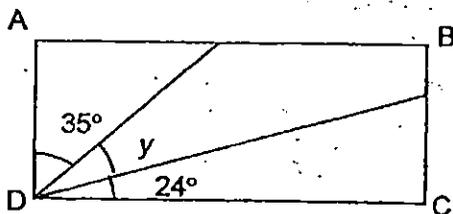
Answer: _____ pairs

36. Line _____ is perpendicular to Line AD.



Answer: Line _____

37. ABCD is a rectangle. Find the value of $\angle y$.
(The figure is not drawn to scale.)

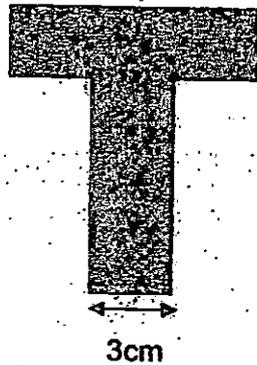


Answer: _____

38. Mr. Smith planted 10 trees in a row for his garden. The distance between each tree and the next was equal for all the trees. The distance between the first tree and the fifth tree was 20m. What was the distance between the 1st tree and the 8th tree?

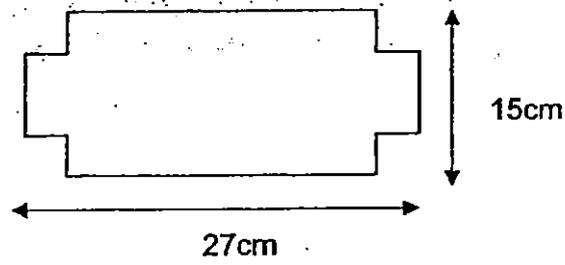
Answer: _____m

39. The shaded figure is drawn on a 3-cm grid. Find the area of the shaded figure.



Answer: _____cm²

40. A square of 1cm is cut from each corner of a rectangle 27 cm by 15 cm.



What is the perimeter of the figure?

Answer: _____ cm

Section C (20 marks)

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

41. Mr Lim won \$4816 in a lucky draw.
He wanted to give all the money to his wife and four children.
If his wife received 3 times as much money as each child, how much money did his wife receive?

Answer: _____ [4]

42. The total cost of a school bag and 5 plastic files is \$120. The school bag costs thrice as much as a plastic file. Find the cost of the school bag.

Answer: _____ [4]

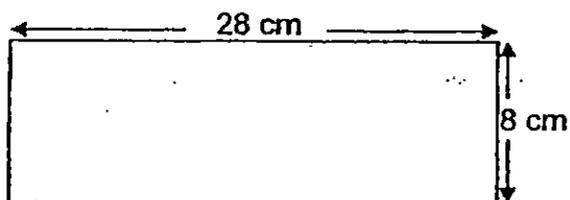
43. A rectangular piece of paper, not drawn to scale, is shown below.

a) What is its area?

Squares

b) Ray needs to cut small rectangles that measure 2-cm by 2-cm from a rectangular piece of paper as shown below. What is the maximum number of such small rectangles can he cut?

Squares



Answer: (a) _____ [1]

(b) _____ [3]

44. Jeremy had $\frac{1}{6}$ as many stamps as Tom. Tom had twice as many stamps as David.

If Jeremy had 300 stamps fewer than David,

(a) How many stamps did Jeremy have?

(b) How many stamps did they have altogether?

Answer: (a) _____ [2]

(b) _____ [2]

45. James ran on Monday, Tuesday, Wednesday and Thursday. Each day, he ran 150 m more than the day before. He ran a total of 4100m for four days. How far did he run on the first day?

Answer: _____ [4]



EXAM PAPER 2015

LEVEL : PRIMARY 4

SCHOOL : NAN HUA PRIMARY SCHOOL

SUBJECT : MATHEMATICS

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	4	4	3	2	4	3	3	3
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
3	3	2	4	4	2	2	1	3	2

Q21. Seventy - two thousand and forty - eight.

Q22. 6314 Q23. 860 Q24. 14 Q25. $12 \times 1 + 2 + 3 + 6 = 12$

Q26. $36 \div 12 = 3$ Q27. $32 \times 8 = 256, 8 \times 4 = 32$

Q28. $1672 \div 8 = 209, 8 - 5 = 3, 5 - 3 = 2, 209 \times 2 = 418$

Q29. $4\frac{1}{2} \rightarrow 5 - \frac{1}{6} = 4\frac{5}{6} - \frac{1}{6} = 4\frac{4}{6} = 4\frac{2}{3}$

Q30. $125 \rightarrow 3 \times 75, 1 \times 75 \div 3 = 25, 5 \times 25 = 125$

Q31. $\frac{1}{2}$ (greatest), $\frac{2}{5}, \frac{3}{10}$ (smallest)

Q32. 10 motorcycles

Assume all are motorcycles

$35 \times 2 = 70, 120 - 70 = 50$ (Total difference)

$4 - 2 = 2$ (Ind difference)

$50 \div 2 = 25$ (cars), $35 - 25 = 10$ (motorcycles)

Q33. 76 game cards

A $\rightarrow 36 \div 4 = 9, C \rightarrow 36 - 5 = 31, \text{Total} \rightarrow 36 + 31 + 9 = 76$

Q34. 14

No. of friends	1	2	3	4
Multiple of 3 (+2)	5	8	11	14
Multiple of 4 (-2)	2	6	10	14

Q35. 2 pairs Q36. DC Q37. 31°C Q38. $35 \times 5 = 175$

Q39. 54cm^2 A $9 \times 3 = 27, b \ 9 \times 3 = 27, \text{Total } 27 + 27 = 54$

Q40. $84 \text{cm} \rightarrow \text{Perimeter} \rightarrow 27 \text{cm} + 27 \text{cm} + 15 \text{cm} + 15 \text{cm} = 84 \text{cm}$

Q41. $\$2064 \rightarrow 7 \times 4816, 1 \times 4816 \div 7 = 688, 3 \times 688 \times 3 = 2064$

Q42. $\$45 \rightarrow 8 \times 120, 1 \times 120 \div 8 = 15, 3 \times 15 \times 3 = 45$

Q43a. $224\text{cm}^2 \rightarrow 28\text{cm} \times 8\text{cm} = 224$

Q43b. $56 \rightarrow 2 \times 2 = 4, 224 \div 4 = 56$

Q44a. $150 \rightarrow 2\text{u } 300, 1\text{u } 300 \div 2 = 150$

Q44b. $1500 \rightarrow 10\text{u } 150 \times 10 = 1500$

Q45. $800\text{m} \rightarrow 4\text{u} \rightarrow 4100 - 900 = 3200, 1\text{u} \rightarrow 3200 \div 4 = 800$