NAN HUA PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 1 – 2018

PRIMARY FOUR

MATHEMATICS

Duration: 1 h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class 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 - 20.

Marks Obtained

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

Name : _____ ( )

Class : Pr 4 _____

Date : 8 May 2018 Parent's Signature : _____

Section A (20 × 2 marks)

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. In 956 803, which digit is in the hundreds place?

   (1) 8
   (2) 6
   (3) 5
   (4) 0 ( )

2. In 56 147, what does the digit '6' stand for?

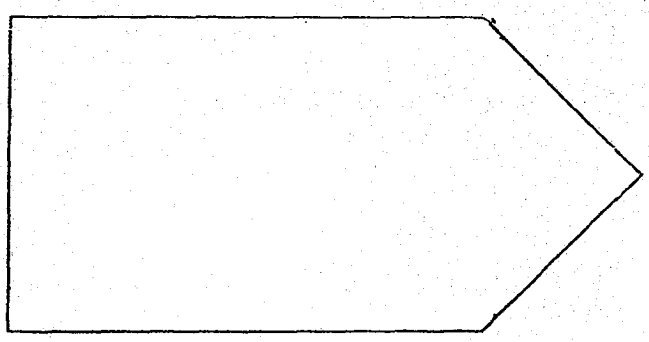
   (1) 6 tens
   (2) 6 hundreds
   (3) 6 thousands
   (4) 6 ten thousands ( )

3. Mr Lim saves $2 656 every month. Round this amount to the nearest $10.

   (1) $2 650
   (2) $2 660
   (3) $2 700
   (4) $3 000

   ( )

4. How many right angles are there inside the figure?



(1) 5

(2) 2

(3) 3

(4) 4 ( )

5. Complete the number pattern.

43 865, 43 965, _____, 44 165, 44 265, 44 365

(1) 42 965

(2) 43 975

(3) 44 065

(4) 44 965 ( )

6. What is the remainder when 8 206 is divided by 4?

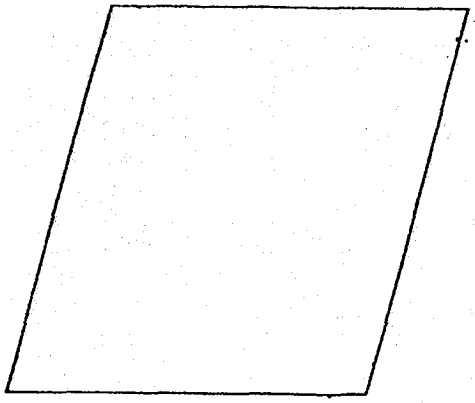
(1) 251

(2) 2

(3) 2 051

(4) 4 ( )

7. How many acute angles are there in the figure?



(1)
(2)
(3)
(4) ( )

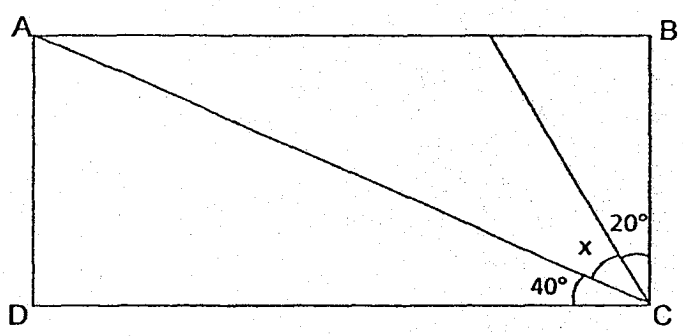
8. What is the second common multiple of 6 and 9?

(1) 54
(2) 36
(3) 3
(4) 18 ( )

9. Subtract 100 from the product of 65 and 10. What is the answer?

(1) 550
(2) 650
(3) 750
(4) 6 500 ( )

10. ABCD is a rectangle. Find $\angle x$. The figure is not drawn to scale.



(1) 20°
(2) 30°
(3) 40°
(4) 60° ( )

11. There are 840 marbles altogether in 2 boxes. The marbles are put in packets of 6. The number of packets of marbles in each box is the same. How many packets are there in each box?

(1) 70
(2) 140
(3) 280
(4) 420 ( )

12. The sum of two numbers is 60. The greater number is three times the smaller number. What is the smaller number?

(1) 15
(2) 20
(3) 40
(4) 45 ( )

13. Which of the following is **not** an equivalent fraction of $\frac{2}{3}$?

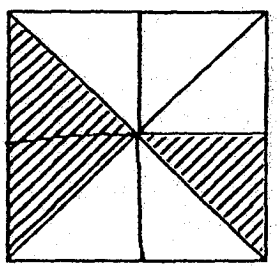
(1) $\frac{4}{6}$

(2) $\frac{6}{9}$

(3) $\frac{10}{18}$

(4) $\frac{8}{12}$ ( )

14. What fraction of the figure is shaded ?



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

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

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

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

15. Which one of the fractions below is greater than $\frac{5}{6}$?

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

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

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

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

16. How many quarters are there in $3\frac{1}{2}$?

(1) 6

(2) 7

(3) 13

(4) 14 ( )

17. There are 48 apples in a basket. $\frac{1}{6}$ of the apples are green and the rest are red. What is the difference between the number of red apples and the number of green apples?

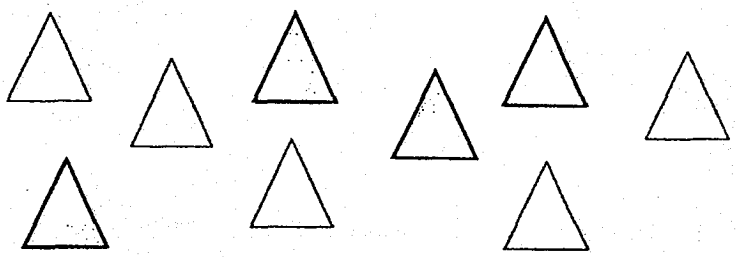
(1) 40

(2) 32

(3) 24

(4) 8 ( )

18. How many more triangles need to be shaded to show that $\frac{2}{3}$ of the set of triangles is **shaded?**



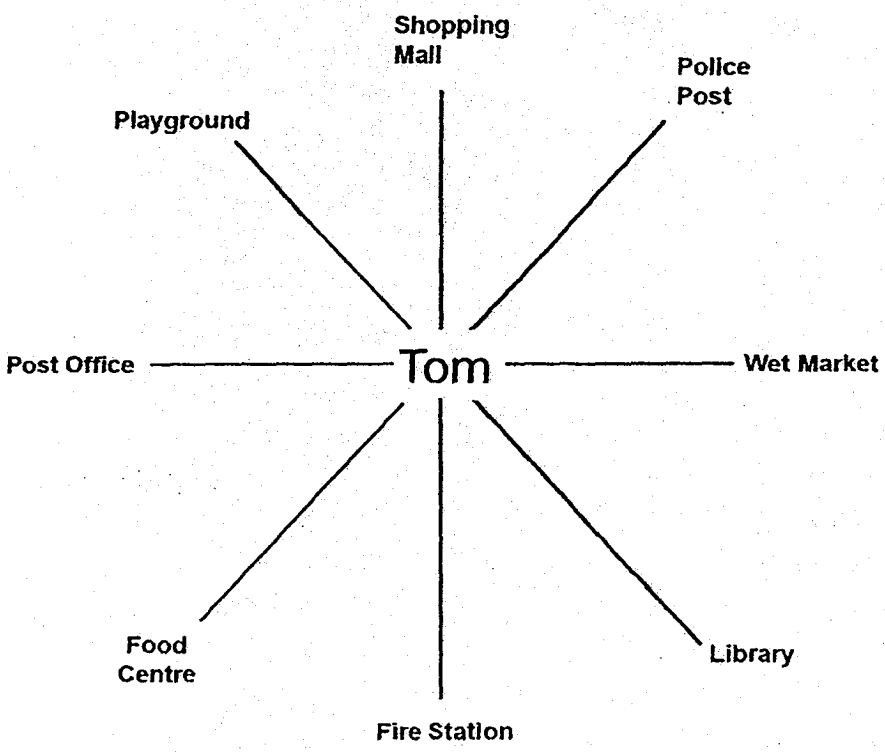
(1) 6
(2) 2
(3) 3
(4) 4 ( )

19. Melody saved $\frac{7}{9}$ of her allowance and spent the rest. She spent $24.

How much more did Melody save than spend?

(1) $12
(2) $24
(3) $48
(4) $60 ( )

20.



Tom is facing the Food Centre. Where will he be facing if he turns 135° in clockwise direction?

(1) Library
(2) Playground
(3) Wet Market
(4) Shopping Mall ( )

Section B (20 × 2 marks)

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 the followings in numerals:

    (a) Nineteen thousand, seven hundred and forty-four.

    (b) Twelve thousand and six.

Answer: (a) _____

(b) _____

22. Solve

    (a) $\frac{1}{9} + \frac{4}{9} =$

    (b) $\frac{5}{6} - \frac{2}{3} =$

Answer: (a) _____

(b) _____

23. Which of these numbers have 3 as a factor? List all the numbers.

10 , 12 , 15 , 16 , 18, 23, 33

Answer: _____

24. List down all the common factors of 12 and 15.

Answer: _____

25. A fruit seller packs 99 apples into some identical bags. Each bag contains 4 apples. Find the least number of such bags the fruit seller needs to pack all the apples.

Answer: _____

26. Form the largest 4-digit odd number with the following digits.

1	3	6	0

Answer: _____

27. Arrange the following numbers in **decreasing order.**

$$\frac{16}{7} \quad , \quad \frac{3}{8} \quad , \quad 2\frac{1}{3}$$

Answer:_____

28. Mr Tan ordered a pizza. He ate $\frac{1}{4}$ of the pizza. His wife ate $\frac{5}{12}$ of the pizza.

What fraction of the pizza was left?

(Express your answer in its simplest form.)

Answer: _____

29. Joe had 10 marbles. 5 of them were red, 3 of them were green and the remaining marbles were white. What fraction of the marbles were white? (Express your answer in its simplest form.)

Answer: _____

30. Samson had to travel 9 km to work. He walked $\frac{3}{4}$ km and cycled the remaining distance. What was the distance Samson cycled? (Give your answer as a mixed number in its simplest form.)

Answer: _____ km

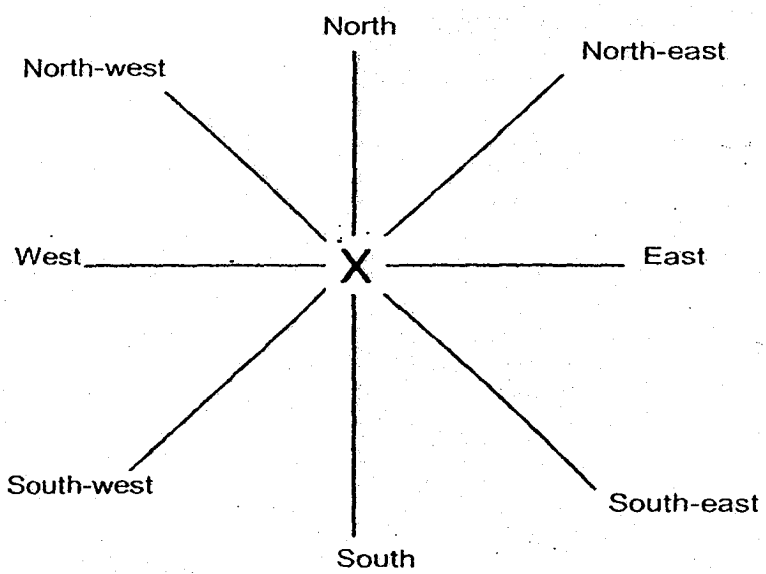
31. There are 2 times as many English books as Chinese books in the library. There are 2 580 English books. How many books are there altogether?

Answer: _____

32. A customer got 1 free packet of fries for every purchase of 3 packets of fries. If Mr Brown had a total of 100 packets of fries, how many packets of fries did he receive for free?

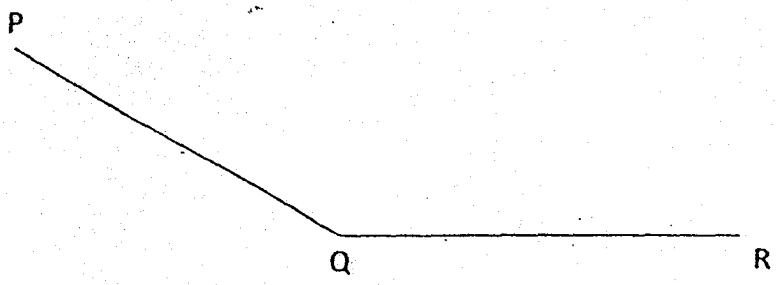
Answer: _____

33. Dylan was at point X facing East. He made a $\frac{3}{4}$ - turn anticlockwise. Where is Dylan facing now?



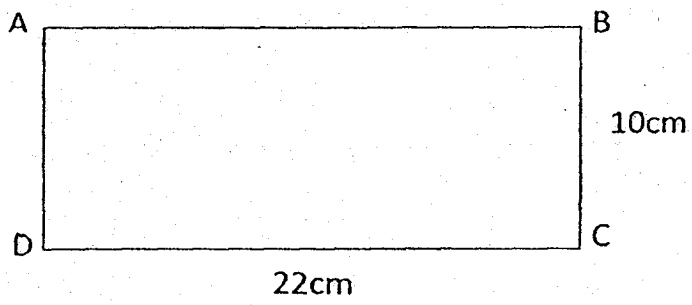
Answer: _____

34. Measure and write down the size of $\angle PQR$.



Answer: _____°

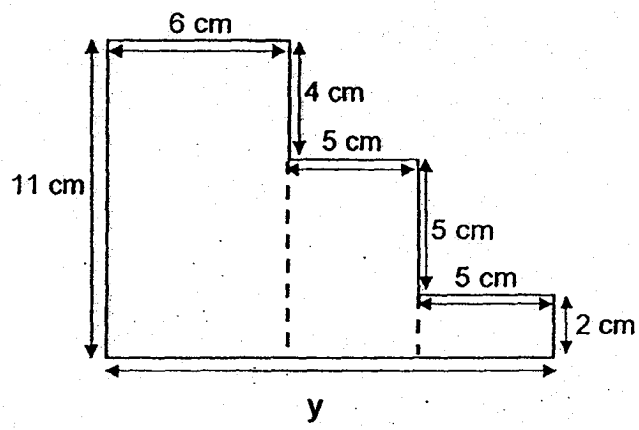
35. Find the lengths of the unknown sides of the rectangle below.
(The figure is not drawn to scale.)



Answer: AD = _____cm

AB = _____cm

36. The figure below is made up of 3 rectangles. This figure is not drawn to scale. Find the length of y.



Answer: _____ cm

37. Mrs Tan mixed $\frac{2}{3}\ell$ of water with $\frac{1}{12}\ell$ of syrup and $\frac{5}{12}\ell$ of milk to make some drinks. How much drink did Mrs Tan prepare?
(Give your answer as a mixed number in its simplest form.)

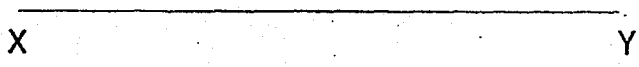
Answer: _____ ℓ

38. How many right angles does the hour hand of a clock turn through from 3 a.m. Wednesday to 9 a.m. Wednesday?

Answer: _____

39. Use a ruler and a set square to draw a rectangle ABCD of length 6 cm and breadth 3 cm. Label the rectangle drawn clearly.

40. Using a protractor, draw an angle measuring 65°. Label the angle XYZ.



Section C (20 marks)

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

41. There is an equal number of cars and motorcycles in a car park.

    A car has 4 wheels and a motorcycle has 2 wheels. They have a total of 114 wheels altogether.

    a) How many motorcycles are there in the carpark?

    b) How many wheels do the motorcycles have altogether?

42. Lily had 4 times as much money as Joseph. After Lily gave Joseph $360, they each had the same amount of money.
(a) How much money did Lily have at first?
(b) How much money did Joseph have in the end?

43. Abel has $180 more than Bob. Calvin has twice as much as Abel. The three children have a total amount of $1 140. How much does Bob have?

44. Shawn received a weekly allowance of \$160. He spent $\frac{1}{4}$ of his allowance on transport and $\frac{3}{8}$ of his allowance on food. He saved the rest of his allowance in the bank.

(a) What fraction of his allowance did he save?

(b) How much did Shawn spend on food?

ANSWER KEY

YEAR : 2018
LEVEL : PRIMARY 4
SCHOOL : NAN HUA PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

SECTION A

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

SECTION B

Q21 a) 19 744

b) 12 006

Q22 a) $\frac{5}{9}$

b) $\frac{1}{6}$

Q23) 12 , 15 , 18 , 33

Q24) 1 and 3

Q25) (25)

$99 \div 4 = 24$ *Remaining* 3

24 + 1 = 25

Q26) 6301

Q27) $2\frac{1}{3}, \frac{16}{7}, \frac{3}{8}$

Q28) $(\frac{1}{3})$

$1-\frac{1}{4}-\frac{5}{12}=\frac{1}{3}$

Q29) $\frac{1}{5}$

Q30) $8\frac{1}{4}$

Q31) (3870)

$2580 \div 2 = 1290$

$1290 \times 3 = 3870$

Q32)25

$100 \div 4 = 25$

Q33) South

Q34) $150° (\pm 0.1°)$

Q35) AD= 10 , AB= 22

Q36) (16cm)

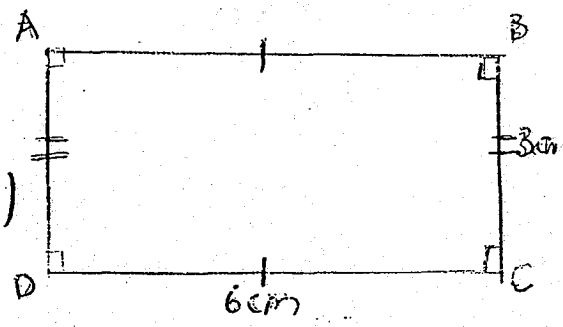
6+5+5=16

Q37) $\left(1\frac{1}{6}\ell\right)$

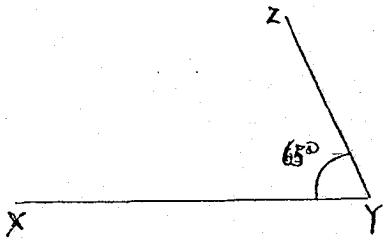
$\frac{2}{3}+\frac{1}{12}+\frac{5}{12}=\frac{14}{12}=1\frac{1}{6}$

Q38)2

Q39)



Q40)



SECTION C

Q41a) (19)

By Guess and check,

No. of cars	No. of wheels	No. of motorcycles	No. of wheel	Total no. of wheel	Check
19	76	19	38	114	✓

b) (38)

Q42)a) Lily Represented by 8units , Joseph represented by 2units.

For Lily and Joseph to have same no. of unit(5 unit) Lily give 3 unit, Joseph Receive 3 unit.

3units=360

1unit=120

Lily has 8 units= 960

b) (600)

Joseph have 5 units in the end= 5 ×120=600

Q43)Bob represented by 1u , Abel by 1u+180 , Calvin by 2u + 360

1u+1u+2u+540 =1140

4u=600

1u=150

Bob has 1u = 150

Q44)a) $(\frac{3}{8})$

$1\text{-}\frac{1}{4}-\frac{3}{8}=\frac{3}{8}$

b) (60)

$\frac{3}{8}\times 160 = 60$

Q45)

Statement	True	False	Not possible to tell
Figure A is a rectangle			✓
Figure B is a square			✓
Figure C is a square			✓
Figure D is a rectangle		✓	

THE END

45. Figure A: I have 4 sides.

Figure B: I have 4 sides and 2 pairs of parallel lines.

Figure C: I have 4 sides and the opposite sides are equal in length.

Figure D: I have 4 equal sides.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
Figure A is a rectangle.			
Figure B is a square.			
Figure C is a square.			
Figure D is a rectangle.			

End of paper