NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 4

MATHEMATICS
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour 45 minutes

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ ( )

Class: Primary 4 ( )

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) and shade your answer on the Optical Answer Sheet. (30 marks)

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1. In the number 58 749, which digit is in the ten thousands place?

   (1) 8

   (2) 7

   (3) 5

   (4) 4

2. Which one of the following is 90 317 in words?

   (1) Nine thousand, three hundred and seventeen.

   (2) Nineteen thousand, three hundred and seventeen.

   (3) Ninety thousand, three hundred and seventeen.

   (4) Ninety thousand, three hundred and seventy.

3. In which of the following are the numbers arranged from the smallest to the greatest?

	(smallest)			(greatest)
(1)	8736,	70 836,	37 680,	36 078
(2)	8736,	36 078,	37 680,	70 836
(3)	36 078,	37 680,	70 836,	8736
(4)	70 836,	37 680,	36 078,	8736

4. The price of a car is \$99 000 when rounded to the nearest thousand dollars. Which of the following amounts **cannot** be the price of the car?

(1) \$98 500

(2) \$98 930

(3) \$99 499

(4) \$99 590

5. Which of the following is **not** a factor of 64?

(1) 1

(2) 2

(3) 6

(4) 8

6. Which one of the following fractions below is equivalent to $\frac{4}{12}$?

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

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

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

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

7. Which one of the following fractions is smaller than $\frac{1}{2}$?

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

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

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

(4) $\frac{5}{9}$

8. Express $\frac{50}{8}$ as a mixed number in its simplest form.

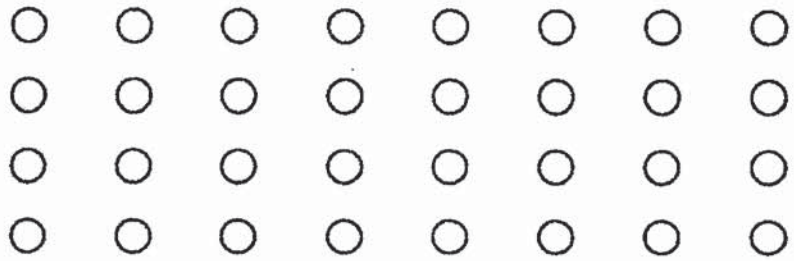
(1) $2\frac{3}{4}$

(2) $6\frac{1}{4}$

(3) $6\frac{2}{8}$

(4) $8\frac{1}{3}$

9. Enzo coloured $\frac{5}{8}$ of the circles below. How many circles were coloured by him?



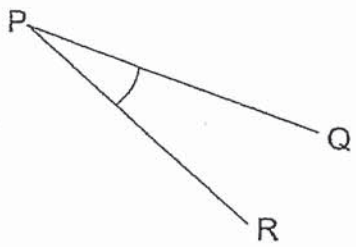
(1) 20

(2) 12

(3) 3

(4) 5

10. Name the marked angle.



(1) ∠PQR

(2) ∠PRQ

(3) ∠QRP

(4) ∠RPQ

11. Alison has $1043. Linda has 7 times as much money as Alison. What is the total amount of money that the 2 girls have?

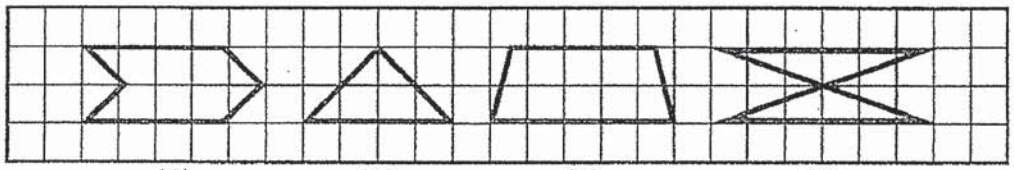
(1) $1192

(2) $7301

(3) $8344

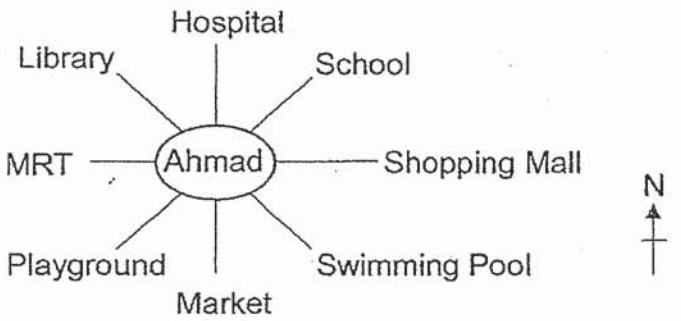
(4) $9044

12. Which one of the following figures in the square grid below has both parallel lines and perpendicular lines?



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

13. After making a quarter turn in the anti-clockwise direction, Ahmad now faces the playground. What place was he facing at first?



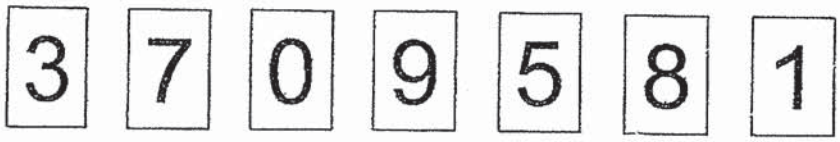
(1) Market

(2) Swimming Pool

(3) MRT

(4) Library

14. Zachary has 7 number cards shown below. He used **all** the number cards to form the greatest 2-digit even number and the smallest 5-digit odd number **at the same time**. What is the difference between the two numbers that Zachary formed?
Each number card can only be used **once**.



(1) 10 259

(2) 10 261

(3) 10 357

(4) 10 358

15. Karl, Lim, Mary and Navin are each competing in a different sporting event at the Olympic Games – basketball, swimming, taekwondo and women's rhythmic gymnastics. Karl and Navin do not know how to swim. Mary is the only female. Karl's event does not require a ball. Which event is Navin competing in?

(1) Basketball

(2) Swimming

(3) Taekwondo

(4) Rhythmic gymnastics

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 4

MATHEMATICS
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

Name: _____ ( )

Class: Primary 4 ( )

Parent's Signature: _____

Booklet A	**/ 30**
Booklet B	**/ 70**
Total	**/ 100**

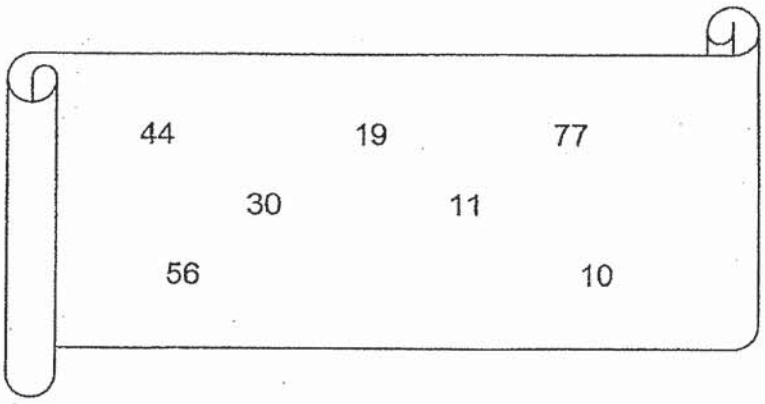
Any query on marks awarded should be raised by 24 May 2019. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Questions **16** to **35** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

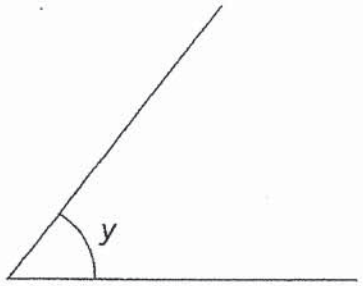
16. Some common factors of 18 and 54 are 1, 2, 3 and 18. What are the other two common factors of 18 and 54?

Ans: _____ and _____

17. Two of the numbers shown below are multiples of 7. Circle the numbers that are multiples of 7.

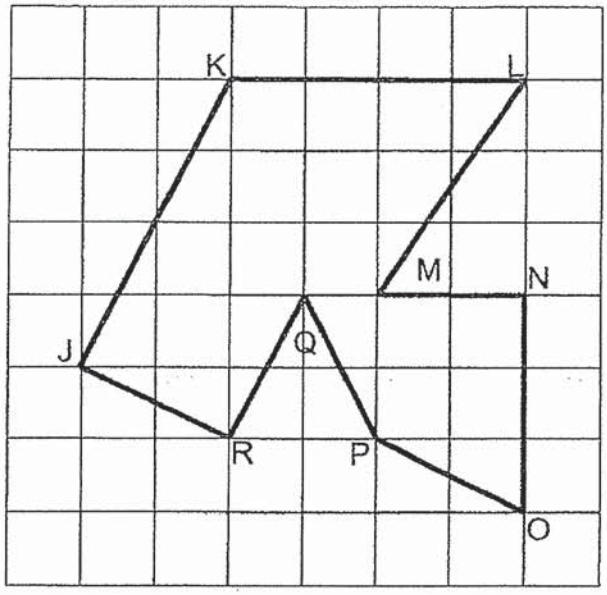


18a) Measure and write down the size of $\angle y$.



Ans: _____ °

18b) In the figure below, which line is parallel to line JK?

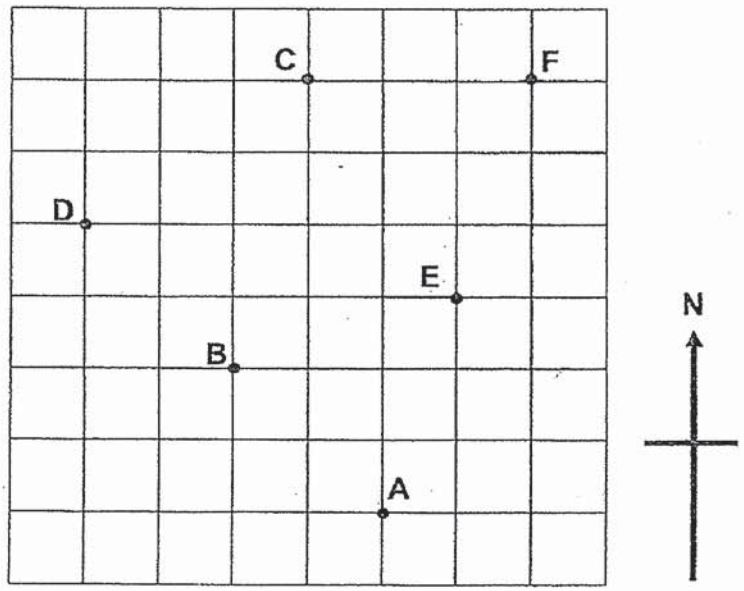


Ans: _____

19. Using a protractor and a ruler, draw $\angle ABC = 75°$. Mark and label the angle.

A ——————————————— B

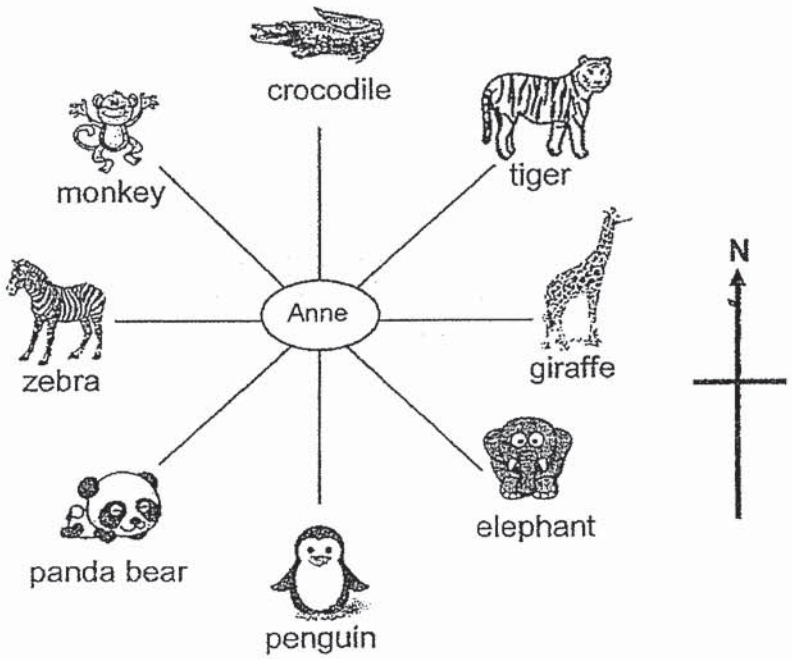
20.



Study the square grid above and fill in the blank with A, C, D, E or F.

Point B is north-west of Point _____ .

21. Anne is at the zoo. She is facing the tiger. How many degrees in the anti-clockwise direction must she turn if she wants to face the elephant?



Ans: _____°

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22. Complete the number pattern.

39 898, 38 898, 38 948, 37 948, 37 998, _____, 37 048, 36 048

Ans: _____

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23. Find the third common multiple of 4 and 6.

Ans: _____

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24. A tennis racket and 3 identical tennis balls have a total mass of 536 g. 2 such tennis rackets and 3 such tennis balls have a total mass of 904 g. What is the mass of a tennis racket?

Ans: _____ g

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25. Mr Woo saves $207 each month. How much does he save in 1 year?

Ans: $ _____

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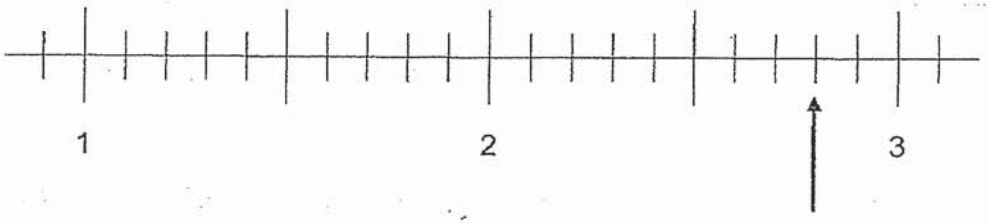
26. The product of two numbers is 2304. One of the numbers is 4, what is the other number?

Ans: _____

27. Johan read $\frac{4}{9}$ of a book. There are 72 pages in the book. How many pages were not read by Johan?

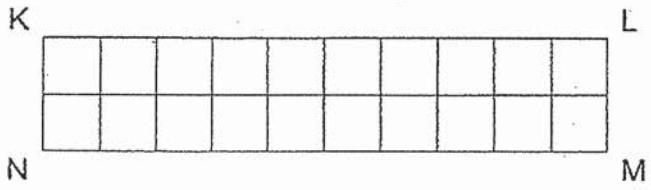
Ans: _____

28. In the number line below, what is the fraction indicated by the arrow? Give your answer as an improper fraction.



Ans: _____

29. In the figure below, rectangle KLMN is made up of 20 unit squares. Mike was asked to shade $\frac{3}{5}$ of the squares below. Then he was asked to shade another 4 squares. What fraction of rectangle KLMN would he have shaded altogether? Give your answer in the simplest form.



Ans: _____

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30. Parcel C has a mass of $\frac{1}{4}$ kg. The total mass of Parcel C and Parcel D is $\frac{5}{6}$ kg. How much heavier is Parcel D than Parcel C?

Ans: _____ kg

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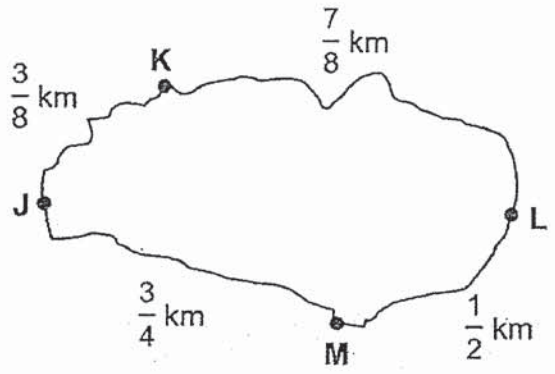
31. The figure below shows the cycling paths joining four pavilions, J, K, L and M, in a park. What is the length of the shorter cycling path from K to M? Give your answer as a mixed number.



Ans: _____ km

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32. A bakery sold mooncakes with four different types of fillings: Red bean, Peanut, Lotus seed paste and Durian. The table below shows the fraction of the number of mooncakes sold for each type of fillings in one day.

Types of fillings	Fraction of the number of mooncakes sold
Red bean	$\frac{1}{8}$
Peanut	$\frac{1}{4}$
Lotus seed paste	$\frac{1}{2}$
Durian	?

What fraction of the number of mooncakes sold were of Durian fillings?

Ans: _____

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33. Janil has 185 packets of beads. Each packet of beads contains 59 silver beads and 2 gold beads. How many more silver beads than gold beads does Janil have?

Ans: _____

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34. A jug contained some juice. Xiao Yun poured out $\frac{2}{3}$ ℓ of the juice to drink. Mrs Yeo added $\frac{1}{9}$ ℓ of juice into the jug. There was $\frac{8}{9}$ ℓ of juice in the jug in the end. How many litres of juice was there in the jug at first?

Ans: _____ ℓ

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35. Ashanti had \$2100. She spent $\frac{3}{7}$ of her money on food, \$100 on transport and the rest on clothes. What fraction of her money did Ashanti spend on clothes?

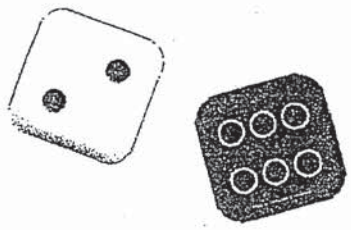
Ans: _____

For questions **36** to **43**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (30 marks)

36. A tank and a flask contained a total of 3000 ml of water at first. David spilled 345 ml of water from the tank. He then transferred 480 ml of water from the tank to the flask. As a result, the tank had twice as much water as the flask. How much water was in the flask at first?

Ans: _____ [3]

37. Liting rolled a white 6-sided die and a black 6-sided die at the same time. She multiplied the 2 numbers on the face of each die. How many possible ways can Liting get a product of 12?



Ans: _____ [3]

38. Mrs Molly bought 2 ℓ of cooking oil. On Sunday, she used $\frac{1}{12}$ ℓ of cooking oil. On Monday, she used $\frac{1}{2}$ ℓ of cooking oil more than on Sunday.

(a) How much cooking oil did she use on both days altogether?

(b) How much cooking oil did she have left?

Ans: (a) _____ [2]

(b) _____ [2]

---

39. Matt had a piece of wire. He used $\frac{2}{7}$ of it to make a bookmark and $\frac{2}{3}$ of it to make a basket.

(a) What fraction of the wire did he use?

(b) What fraction of the wire did he have left?

Ans: (a) _____ [2]

(b) _____ [2]

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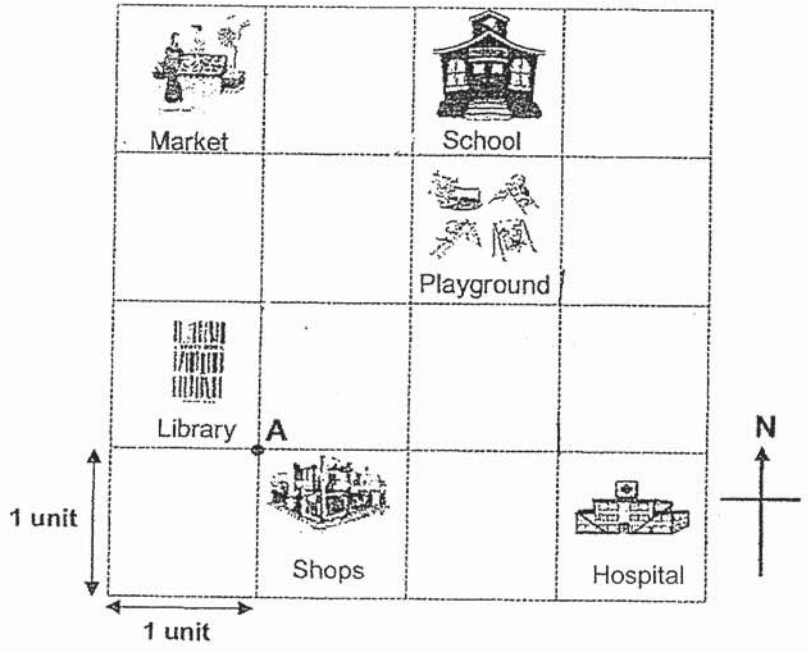
40. The points on the square grid below show the location of some landmarks. Refer to the square grid and answer the following questions.



[2]

(a) In what direction is the hospital from the market?

(b) Ravi is in school facing north. He makes a 225° turn clockwise. What place is he facing now?

(c) The town council wants to build a swimming pool. The location of the swimming pool is to the east of the library and north-east of the shops. Put a tick (✓) in the square where the swimming pool will be built.

(d) At first, Penny is at point A. She walks 1 unit to the north, 2 units to the east and 1 unit to the south. Put a cross (X) on the square grid to show where Penny is in the end.

Ans: (a) _____ [1]

(b) _____ [1]

41. Mrs Ng and Mdm Amira went to a bakery.

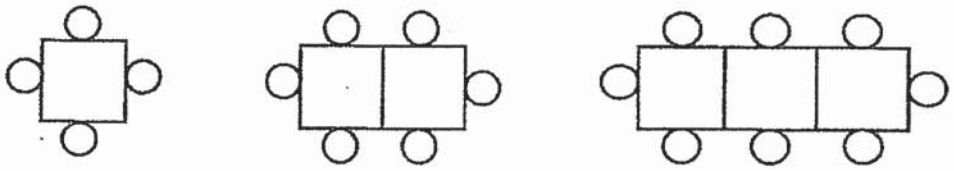
(a) Mrs Ng bought 24 cakes for a school carnival. How much did she pay for all the cakes?

(b) Mdm Amira bought an **equal** number of doughnuts and muffins and paid a total of $90. How many muffins did she buy?

Ans: (a) _____ [2]

(b) _____ [2]

42. Barney used circles and squares to make patterns as shown below.



Pattern 1 Pattern 2 Pattern 3

(a) How many circles were there in Pattern 102?

(b) Barney made a pattern with 52 circles. How many squares were there in this pattern?

Ans: (a) _____ [2]

(b) _____ [2]

43. Ah Huat had some chickens on his farm. He gave $\frac{1}{4}$ of the chickens to Seng Choon and $\frac{7}{12}$ of the chickens to Jin Heng. Ah Huat gave Jin Heng 84 more chickens than what he gave to Seng Choon. How many chickens did Seng Choon receive from Ah Huat?

Ans: _____ [4]

End of Paper

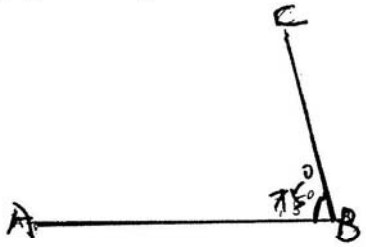
ANSWER KEY

YEAR : 2019
LEVEL : PRIMARY 4
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATHMATICS
TERM : FIRST SEMESTRAL ASSESSMENT

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

Q16. 6 and 9
Q17. 56, 77
Q18. (a) 53°
(b) Line RQ

Q19.



Q20. A
Q21. 270°
Q22. 36998
Q23. 36
Q24. 368g
Q25. **$2484**
Q26. **576**
Q27. **40**
Q28. $\frac{14}{5}$
Q29. $\frac{4}{5}$
Q30. $\frac{1}{3}kg$
Q31. $1\frac{1}{8}$**km**
Q32. $\frac{1}{8}$
Q33. 10545
Q34. $1\frac{4}{9}\ell$

Q35. $\frac{11}{21}$
Q36. 405mℓ
Q37. 4
Q38. (a) $\frac{2}{3}$ ℓ
(b) $1\frac{1}{3}$ ℓ
Q39. (a) $\frac{20}{21}$
(b) $\frac{1}{21}$
Q40. (a) South-East
(b) Library
Q41. (a) $864
(b) 20
Q42. (a) 206
(b) 25
Q43. 63