



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.

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)

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.

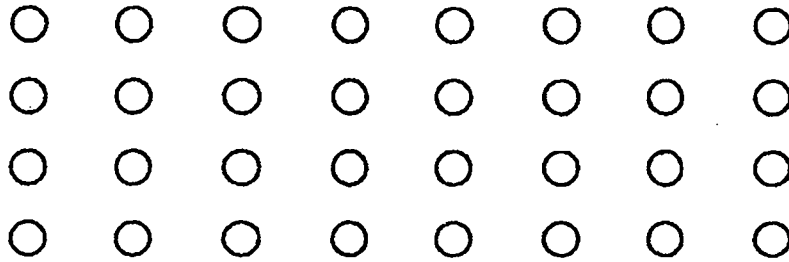
(1) $2\frac{3}{4}$

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

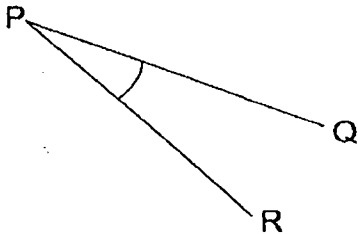
(3) $6\frac{2}{8}$

(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.

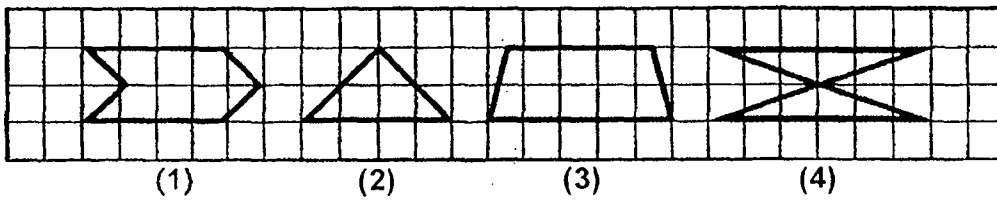


- (1) $\angle PQR$
(2) $\angle PRQ$
(3) $\angle QRP$
(4) $\angle RPQ$

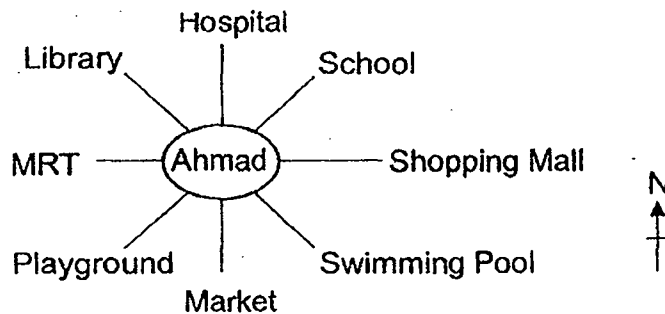
11. Alison has \$1043. Linda has 7 times as much money as Alison. What is the total amount of money that the 2 girls have?

- (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?



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

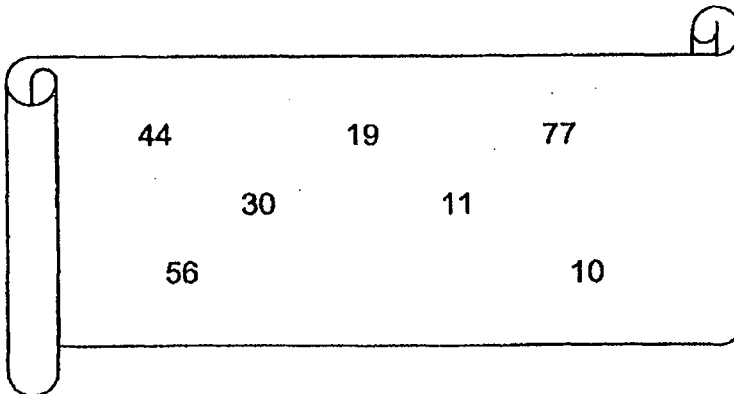
Any query on marks awarded should be raised by 24 May 2019. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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)

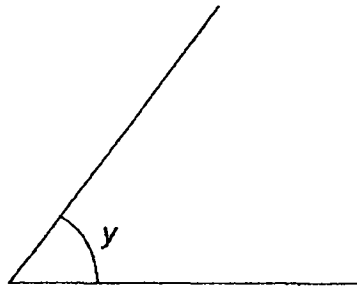
16. Some common factors of 18 and 54 are 1, 2, 3 and 18. What are the other two common factors of 18 and 54?

Ans: _____ and _____

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

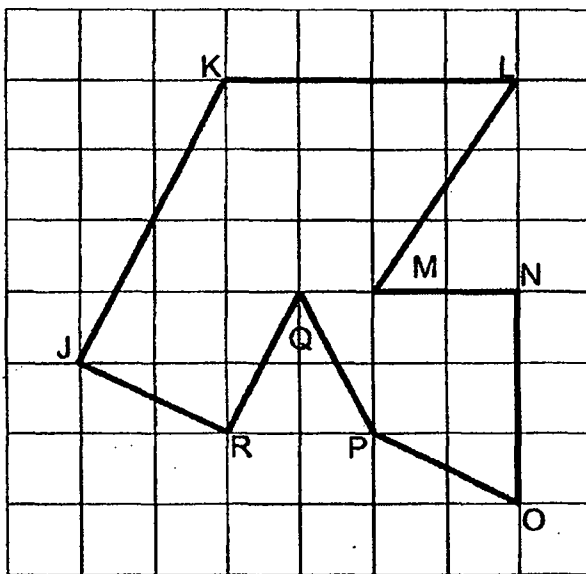


18a) Measure and write down the size of $\angle y$.



Ans: _____^o

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

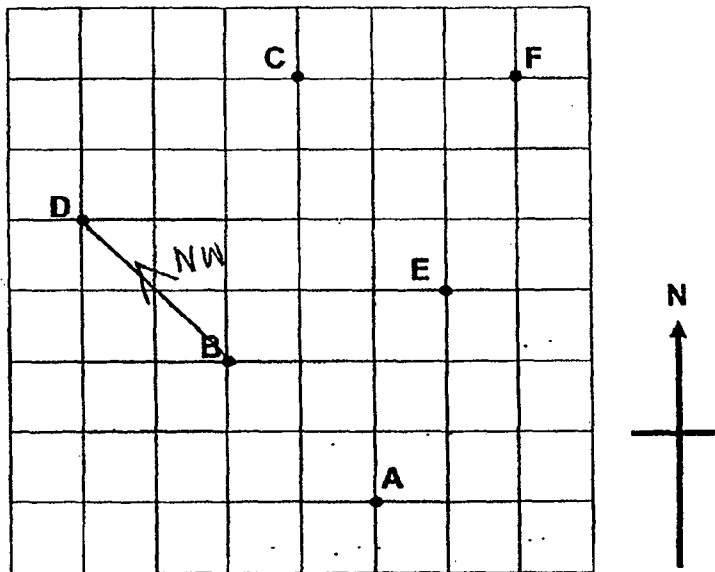


Ans: _____

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



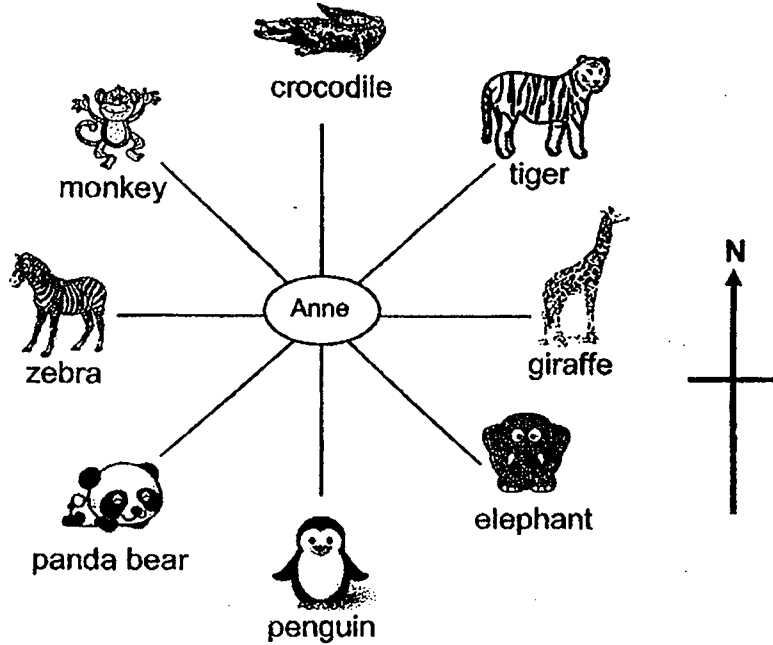
- 20.



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: _____°

22. Complete the number pattern.

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

Ans: _____

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

Ans: _____

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

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

Ans: \$ _____

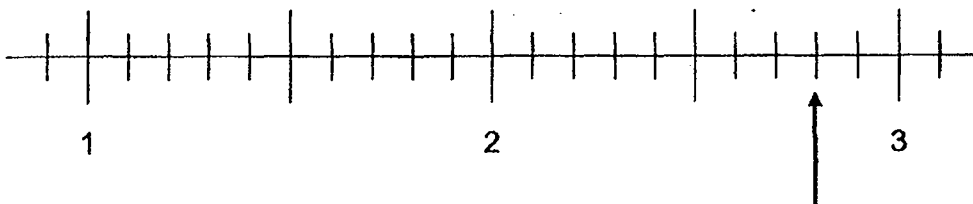
26. The product of two numbers is 2304. One of the numbers is 4, what is the other number?

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?

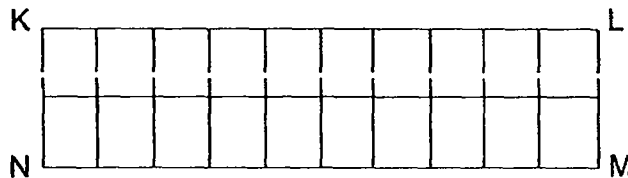
Ans: _____

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.

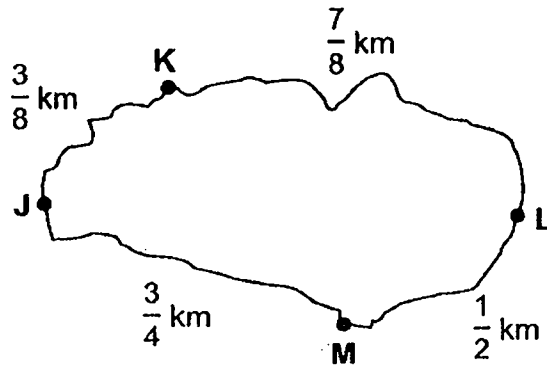


Ans: _____

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

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

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: _____

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: _____

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

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?

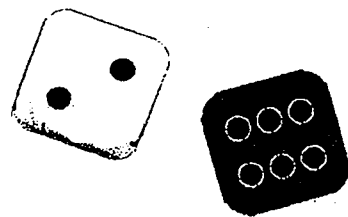
Ans: _____

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]

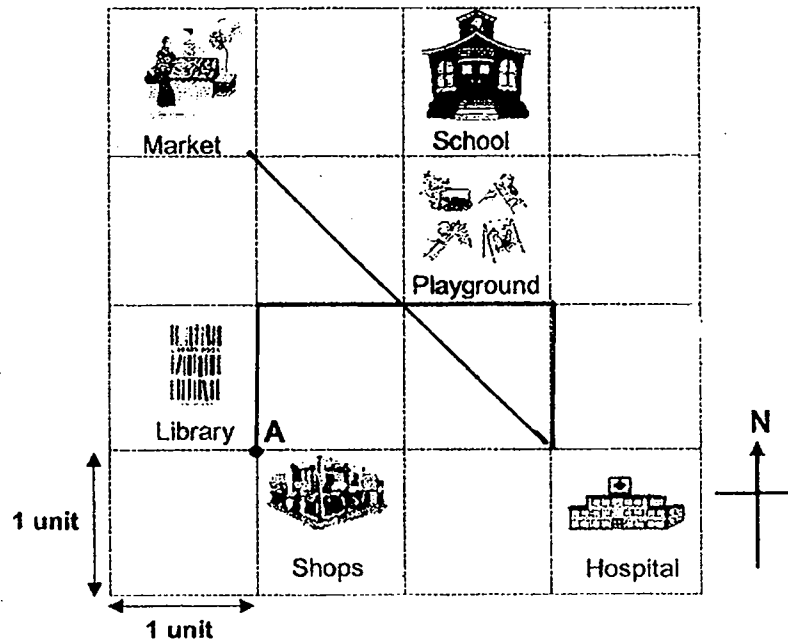
39. Matt had a piece of wire. He used $\frac{2}{7}$ of it to make a bookmark and $\frac{2}{3}$ of it to make a basket.

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

Ans: (a) _____ [2]

(b) _____ [2]

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]



- In what direction is the hospital from the market?
- Ravi is in school facing north. He makes a 225° turn clockwise. What place is he facing now?
- 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.
- 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.

Sweet Secrets Bakery

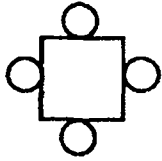
<p>Cake</p>  <p>1 for \$36</p>	<p>Doughnut</p>  <p>1 for \$2</p>
<p>Muffin</p>  <p>2 for \$5</p>	

- (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?

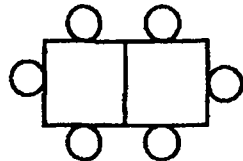
Ans: (a) _____ [2]

(b) _____ [2]

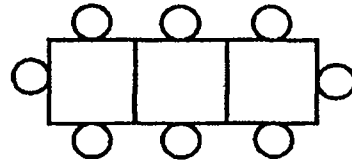
42. Barney used circles and squares to make patterns as shown below.



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

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INSTRUCTIONS TO PUPILS

Do not turn over this page until you are told to do so.
 Answer all questions.
 Write your answers in the Optical Answer Sheet (OAS) provided.

Questions 1 to 15 carry 2 marks each. For each question, first circle a/an answer and then tick the correct answer in the box below (10 marks).

1. In the number 700, 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) Ninety thousand, three hundred and seventeen.
 (3) Ninety thousand, three hundred and seventy.
 (4) Ninety thousand, three hundred and seventy.
3. In which of the following are the numbers arranged from the smallest to the greatest?
 (1) 8726, 37 660, 37 660, 36 078 (greatest)
 (2) 8726, 36 078, 37 660, 70 836
 (3) 36 078, 37 660, 70 836, 8726
 (4) 70 836, 37 660, 36 078, 8726

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?

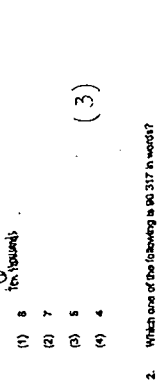
- (1) \$88 500 \approx 99 000
 (2) \$88 000 \approx 89 000
 (3) \$99 499 \approx 99 000
 (4) \$99 999 \approx 100 000
5. Which of the following is not a factor of 647?
 (1) 1 (2) 2 (3) 8 (4) 9
6. Which one of the following fractions below is equivalent to $\frac{4}{12}$?
 (1) $\frac{1}{3}$ (2) $\frac{1}{4}$ (3) $\frac{1}{6}$ (4) $\frac{1}{8}$

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

- (1) $\frac{2}{3}$ (2) $\frac{3}{4}$ (3) $\frac{4}{5}$ (4) $\frac{5}{6}$
8. Express $\frac{50}{6}$ as a mixed number in its simplest form.

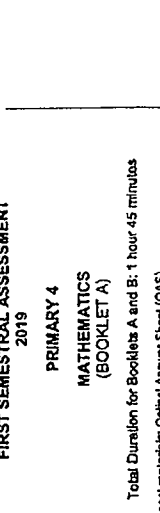
$$\frac{50}{6} = \frac{48}{6} + \frac{2}{6} = 8 + \frac{1}{3} = 8\frac{1}{3}$$

9. Eric coloured $\frac{2}{5}$ of the circles below. How many circles were coloured by him?



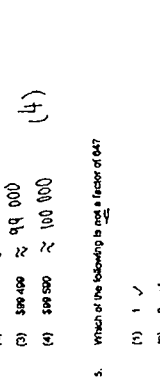
- (1) 20 (2) 12 (3) 3 (4) 5

9. Eric coloured $\frac{2}{5}$ of the circles below. How many circles were coloured by him?



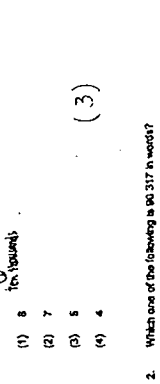
- (1) 20 (2) 12 (3) 3 (4) 5

10. Name the marked angle.



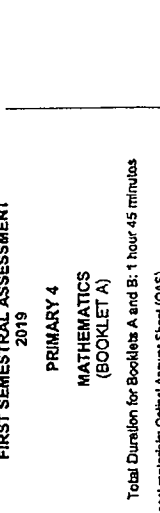
- (1) $\angle POQ$ (2) $\angle PQR$ (3) $\angle ORP$ (4) $\angle ROQ$

11. Alison has \$100. What has 7 times as much money as Alison. What is the total amount of money that the 2 girls have?



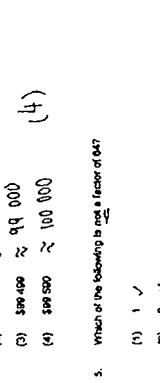
- (1) \$1192 (2) \$7301 (3) \$8324 (4) \$2044

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



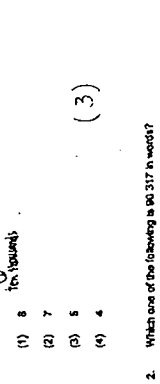
- (1) (2) (3) (4)

13. After making a quarter turn in the anticlockwise direction, Ahmed now faces the playground. What time was he facing it first?



- (1) Market (2) Swimming Pool (3) MRT (4) Library

14. Zainy has 7 number cards shown below. He used all the number cards to form the greatest 2-digit even number and the smallest 3-digit odd number in the same line. What is the difference between the two numbers? Each number card can only be used once.



- (1) 10 288 (2) 10 281 (3) 10 337 (4) 10 358

15. Kim, Lim, Mary and Navin are each competing in a different sporting event at the Olympic Games - Volleyball, Swimming, Basketball and Tennis. Kim is the only female. Kim's event does not require a ball. Which event is Navin competing in?

	B	S	T	V
Kim	x	x	x	x
Lim	x	x	x	x
Mary	x	x	x	x
Navin	x	x	x	x

- (1) Basketball (2) Swimming (3) Tennis (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

STEPS TO FOLLOW

1. Turn over this page until you are told to do so.

2. Read all instructions carefully.

3. Answer all questions.

4. Write your answers in this booklet.

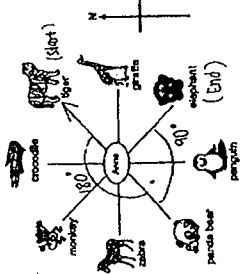
Primary 4 ()

Signature: _____

Booklet A	/ 30
Booklet B	/ 70
Total	/ 100

Try on marks awarded should be raised by 24 Mar 2019. We seek your and in this matter as any delay in the confirmation of marks will lead to the generation of results.

1. Arnie is at the zoo. She is facing the tiger. How many degrees in the clockwise direction must she turn if she wants to face the elephant? 90°



$$180^\circ + 90^\circ = 270^\circ \text{ (ans)}$$

Ans: 270

2. Complete the number pattern.

$$\begin{array}{r}
 38 \text{ less } 32 \text{ less } 30 \text{ less } 27 \text{ less } 37 \text{ less } 37 \text{ less } 36 \text{ less } \\
 -1000 \quad 450 \quad -1000 \quad 450 \quad -1000 \quad 450 \\
 \hline
 37 \text{ less } 36 \text{ less } 35 \text{ less } 34 \text{ less } 33 \text{ less } 32 \text{ less } 31 \text{ less }
 \end{array}$$

$$37 \text{ less } 36 \text{ less } -1000 = 36 \text{ less } 34 \text{ less } \text{ (ans)}$$

$$\begin{array}{r}
 36 \text{ less } 34 \text{ less } 32 \text{ less } 30 \text{ less } 28 \text{ less } 26 \text{ less } \\
 \hline
 \text{ (Ans: } 36 \text{ less } 34 \text{ less } 32 \text{ less } 30 \text{ less } 28 \text{ less } 26 \text{ less } 24 \text{ less } 22 \text{ less } 20 \text{ less } 18 \text{ less } 16 \text{ less } 14 \text{ less } 12 \text{ less } 10 \text{ less } 8 \text{ less } 6 \text{ less } 4 \text{ less } 2 \text{ less } 0 \text{ less } \text{)}
 \end{array}$$

Ans: 2484

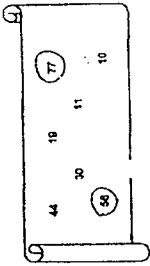
Questions 16 to 25 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require (40 marks) your answers in the units stated.

16. Some common factors of 18 and 54 are 1, 2, 3 and 6. What are the other two common factors of 18 and 54?

$$\begin{array}{r}
 18 \\
 \underline{-54} \\
 1 \times 18 \\
 2 \times 27 \\
 3 \times 36 \\
 \hline
 6 \times 9
 \end{array}$$

Ans: 6 and 9

17. Two of the numbers shown below are multiples of 7. Circle the number that is a multiple of 7.

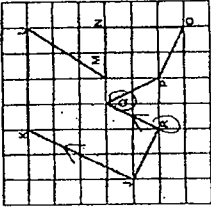


18(a) Measure and write down the size of $\angle Y$.



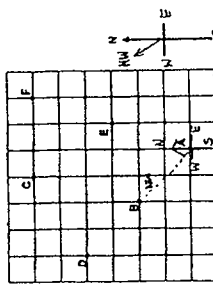
Ans: 53

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



Ans: Line R, Q, or Q, R

20.



Study the squares grid above and fill in the blank with A, C, D, E, or F. Point B is northwest of point M. _____

Answer: A

19. Using a protractor and a ruler, draw $\angle DCE = 75^\circ$. Mark and label the angle.

26. The product of two numbers is 2304. One of the numbers is 4, what is the other number?
 $2304 \div 4 = 576$ (ans)

$$\begin{array}{r}
 0576 \\
 4 \overline{)2304} \\
 \underline{20} \\
 30 \\
 \underline{28} \\
 24 \\
 \underline{24} \\
 0
 \end{array}$$

27. Johan read $\frac{3}{8}$ of a book. There are 72 pages in the book. How many pages were not read?
 $72 \times \frac{5}{8} = 45$ (ans)

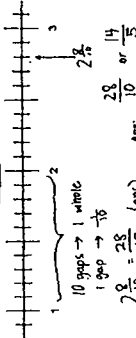


$$72 - 27 = 45$$

$$5 \times 9 = 45$$

Ans: 45

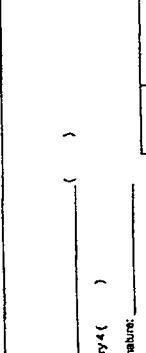
28. In the number line below, what is the fraction indicated by the arrow? Give your answer as a $\frac{\square}{\square}$ fraction.



Ans: $\frac{28}{10}$ or $\frac{14}{5}$

Mathematics (Booklet B)
Total Duration for Booklets A and B: 1 hour 45 minutes

29. Study the squares grid above and fill in the blank with A, C, D, E, or F. Point B is northwest of point M.



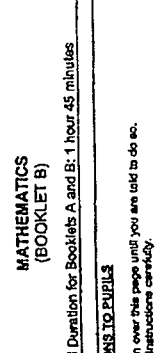
Answer: A

30. Parcel C has a mass of $\frac{2}{9}$ kg. The total mass of Parcel C and Parcel D is $\frac{3}{8}$ kg. How much heavier is Parcel D than Parcel C?

$$\frac{3}{8} - \frac{2}{9} = \frac{27}{72} - \frac{16}{72} = \frac{11}{72} \text{ (ans)}$$

Ans: $\frac{11}{72}$ or $\frac{1}{6}$

31. Arnie is at the zoo. She is facing the tiger. How many degrees in the clockwise direction must she turn if she wants to face the elephant?



$$180^\circ + 90^\circ = 270^\circ \text{ (ans)}$$

Ans: 270

32. Complete the number pattern.

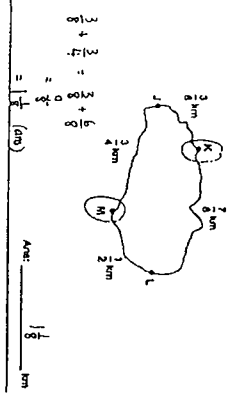
$$\begin{array}{r}
 38 \text{ less } 32 \text{ less } 30 \text{ less } 27 \text{ less } 37 \text{ less } 37 \text{ less } 36 \text{ less } \\
 -1000 \quad 450 \quad -1000 \quad 450 \quad -1000 \quad 450 \\
 \hline
 37 \text{ less } 36 \text{ less } 35 \text{ less } 34 \text{ less } 33 \text{ less } 32 \text{ less } 31 \text{ less }
 \end{array}$$

$$37 \text{ less } 36 \text{ less } -1000 = 36 \text{ less } 34 \text{ less } \text{ (ans)}$$

$$\begin{array}{r}
 36 \text{ less } 34 \text{ less } 32 \text{ less } 30 \text{ less } 28 \text{ less } 26 \text{ less } \\
 \hline
 \text{ (Ans: } 36 \text{ less } 34 \text{ less } 32 \text{ less } 30 \text{ less } 28 \text{ less } 26 \text{ less } 24 \text{ less } 22 \text{ less } 20 \text{ less } 18 \text{ less } 16 \text{ less } 14 \text{ less } 12 \text{ less } 10 \text{ less } 8 \text{ less } 6 \text{ less } 4 \text{ less } 2 \text{ less } 0 \text{ less } \text{)}
 \end{array}$$

Ans: 2484

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.



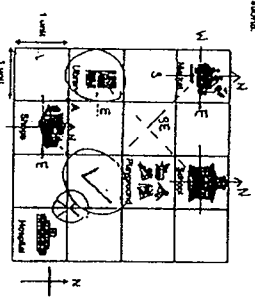
Ans: $1\frac{1}{2}$ km

32. A bakery sold marmalades with four different types of fillings: Red Currant, Pear, Lotus seed paste and Durian. The table below shows the number of marmalades sold for each type of filling in one day.

Type of filling	Fraction of the number of marmalades sold
Red Currant	$\frac{1}{4}$
Pear	$\frac{1}{4}$
Lotus seed paste	$\frac{1}{2}$
Durian	$\frac{1}{4}$

- What fraction of the number of marmalades sold were of Durian filling?
 $\frac{1}{4} + \frac{1}{4} + \frac{1}{2} + \frac{1}{4} = \frac{1}{2} + \frac{1}{4} + \frac{1}{4} = \frac{1}{2} + \frac{1}{2} = 1$
 Ans: $\frac{1}{2}$

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



- (a) In what direction is the Hospital from the chimney?
 (b) What is an opposite angle from the reflex angle $180^\circ + 45^\circ$ clockwise from the chimney?
 (c) The beam of light from the lighthouse is to the east of the chimney and perpendicular to the square. Put a tick (✓) in the square where the beam of light will be built.
 (d) At first, Perry 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 Perry is in the end.

Ans: (a) South-west
 (b) Library
 (c) ✓
 (d) X

33. Jiah had 185 packets of beads. Each packet of beads contains 8 silver beads and 5 gold beads. How many more silver beads than gold beads does Jiah have?
 $185 \text{ packets} \rightarrow 185 \times 8 = 1480 \text{ silver beads}$
 $185 \text{ packets} \rightarrow 185 \times 5 = 925 \text{ gold beads}$
 $1480 - 925 = 555$
 Ans: 555

34. At first, a big container some juice. Xiao Yan poured out $\frac{2}{5}$ of the juice to drink. Mrs Yee added $\frac{1}{4}$ of a liter to the big. There was $\frac{3}{8}$ of a liter in the big in the end. How many liters of juice was there in the big at first?
 $\frac{3}{8} - \frac{1}{4} = \frac{3}{8} - \frac{2}{8} = \frac{1}{8}$
 $\frac{1}{8} + \frac{2}{5} = \frac{1}{8} + \frac{4}{10} = \frac{1}{8} + \frac{2}{5}$
 Ans: $\frac{13}{40}$ or $1\frac{3}{40}$

35. Ashant had \$2100. She spent $\frac{1}{3}$ of her money on food, \$100 on transport and the rest on clothes. What fraction of her money did Ashant spend on clothes?
 $2100 \times \frac{1}{3} = 700$
 $2100 - 700 - 100 = 1300$
 $\frac{1300}{2100} = \frac{13}{21}$
 Ans: $\frac{13}{21}$

Sweet Secrets Bakery

Cake 1 for \$38

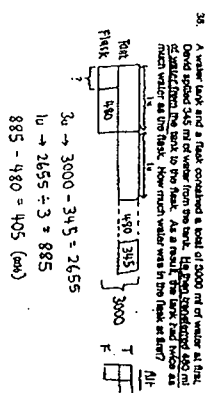
Doughnut 1 for \$2

Muffin 2 for \$5

(a) Mrs Ng bought 24 cakes for a school carnival. How much did she pay for all the cakes?
 $24 \times 38 = 912$

(b) Helen bought a special number of doughnuts and muffins and paid a total of \$60. How many muffins did she buy?
 $2M + 2D = 60$
 $2M + 2D = 55 + 42 = 97$
 $97 - 60 = 37$
 $37 \div 2 = 18.5$
 Ans: (a) \$912
 (b) 18.5

36. 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. (50 marks)

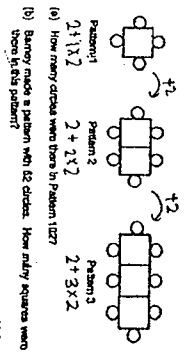


37. Ling added a water bottle and a bag of water to the same tank. She had a total of 405 ml of water in the tank. How many possible ways can Ling get a product of 12?

W	B
1	6
2	2
3	4
4	3

 Ans: 4

42. Barry used circles and rectangles to make patterns as shown below.



38. Mrs Abby bought $\frac{3}{4}$ of a loaf of bread. On Sunday, she used $\frac{1}{8}$ of the loaf of bread. On Monday, she used $\frac{1}{4}$ of the loaf of bread on Sunday.

- (a) How much of the loaf did she use on both days?
 $\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$
- (b) How much of the loaf did she have left?
 $1 - \frac{7}{8} = \frac{1}{8}$
 Ans: (a) $\frac{7}{8}$
 (b) $\frac{1}{8}$

39. Kent had a piece of wire. He used $\frac{2}{5}$ of it to make a bookmark and $\frac{1}{5}$ of it to make a basket.
- (a) What fraction of the wire did he use?
 $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$
- (b) What fraction of the wire did he have left?
 $1 - \frac{3}{5} = \frac{2}{5}$
 Ans: (a) $\frac{3}{5}$
 (b) $\frac{2}{5}$

43. An Hui had some chickens on his farm. He gave $\frac{1}{4}$ of the chickens to Song Choon and $\frac{1}{5}$ of the chickens to Jan Heng. An Hui gave an Heng 84 more chickens than what he gave to Song Choon. How many chickens did Song Choon have from An Hui?
 $10 \text{ CH} \rightarrow \frac{3}{12}$
 $10 \text{ CH} \rightarrow \frac{3}{12}$
 $10 \text{ CH} \rightarrow \frac{3}{12}$
 $10 \text{ CH} \rightarrow \frac{3}{12}$
 Ans: 63