NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2017

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	/ 30
Section B	/ 40
Section C	/ 30

Total:	/ 100

Name: _____ (   )

Class: Primary 4 (   )

Date: 3 May 2017

Any query on marks awarded should be raised by 18 May 2017. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(Total: 30 marks)

1. In 72 563, which digit is in the thousands place?

    (1)   7   (2)   2
    (3)   6   (4)   5

2. Which one of the following sets of numbers is arranged from the largest to the smallest?

    (1)   78 863,   79 683,   79 836

    (2)   79 683,   78 863,   79 836

    (3)   79 836,   78 863,   79 683

    (4)   79 836,   79 683,   78 863

3. Complete the number pattern listed below.

    ┌───┐
    │   32 671, 32 661, 32 641, 32 611, _____   │
    └───┘

    (1)   32 571   (2)   32 581
    (3)   32 591   (4)   32 601

4. Mary had some sweets. She could pack them equally into 6 bags or 9 bags with no sweets leftover. What was the smallest number of sweets Mary had?

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

5. Find the product of 672 and 87.

    (1)   10 080   (2)   54 549
    (3)   58 464   (4)   59 364

6. How many eighths are there in 3?

    (1)   8   (2)   2
    (3)   3   (4)   24

7. Which one of the following will give the same value as 350 × 20?

    (1)   3500 × 2   (2)   35 × 2 × 10
    (3)   35 × 20 + 10 × 20   (4)   350 × 2 + 350 × 10

8. Find the remainder when 853 is divided by 6.

    (1)   1   (2)   2
    (3)   3   (4)   0

9. In the figure below, ABCD is a square.
   AE = EB, BF = FC, DG = GC and AH = HD.
   What fraction of the square ABCD is unshaded?
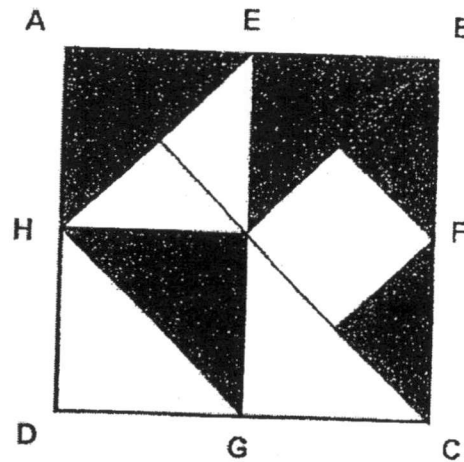
(1) $\dfrac{1}{2}$

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

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

(4) $\dfrac{5}{8}$

10. Jane used $\dfrac{1}{5}$ kg of sugar to bake a loaf of bread. She used $\dfrac{1}{8}$ kg more sugar to bake a cake than the loaf of bread. How much sugar did she use to bake the cake?

(1) $\dfrac{2}{13}$ kg

(2) $\dfrac{3}{40}$ kg

(3) $\dfrac{13}{40}$ kg

(4) $\dfrac{21}{40}$ kg

4

11. Devi spent $\frac{1}{4}$ of her money on a bag. She had $27 left. How much money did she have at first?

(1) $9
(2) $36
(3) $54
(4) $108

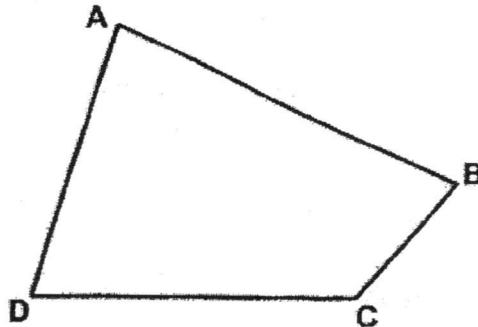12. Which one of the following letters has both perpendicular and parallel lines?
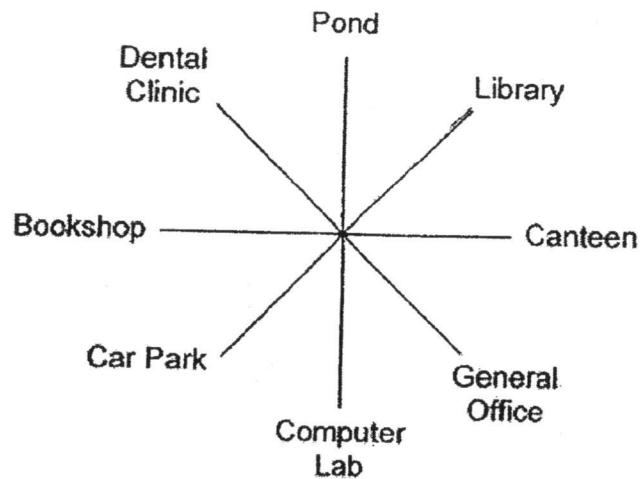
(1)   A

(2)   H

(3)   T

(4)   Z

13. In the figure ABCD below, which angle is greater than 90°?

(1)   ∠ADC
(2)   ∠BCD
(3)   ∠ABC
(4)   ∠BAD

14. After turning 225° anti-clockwise, Eugene is facing the library now. Which place was he facing at first?

Pond

Dental
Clinic

Library

Bookshop ———— ———— Canteen

Car Park

General
Office

Computer
Lab

(1)   Bookshop   (2)   Computer Lab
(3)   Dental Clinic   (4)   General Office

15. Susan paid $17 for 3 chocolate muffins and a slice of cheese cake. The cheese cake cost $5 more than the total cost of the 3 chocolate muffins. How much did Susan pay for the slice of cheese cake?

(1) $6   (2) $2
(3) $7   (4) $11

6

Section B

Questions 16 to 35 carry 2 marks each. Show your working 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.

(Total: 40 marks)

16. In the box below, circle the numbers that are factors of 30.

1	2	10	7
4		30	15
16	3	6	20

17. Write down all the common factors of 36 and 42.

Answer : _____

18. Find the 9ᵗʰ multiple of 7.

Answer : _____

19.   Find the value of 2745 ÷ 9.

Answer : _____

20.   Express $5\frac{4}{7}$ as an improper fraction.

Answer : _____

21.   Maisie made a bracelet using 16 red beads and 12 yellow beads.
      What fraction of the beads on the bracelet is yellow?
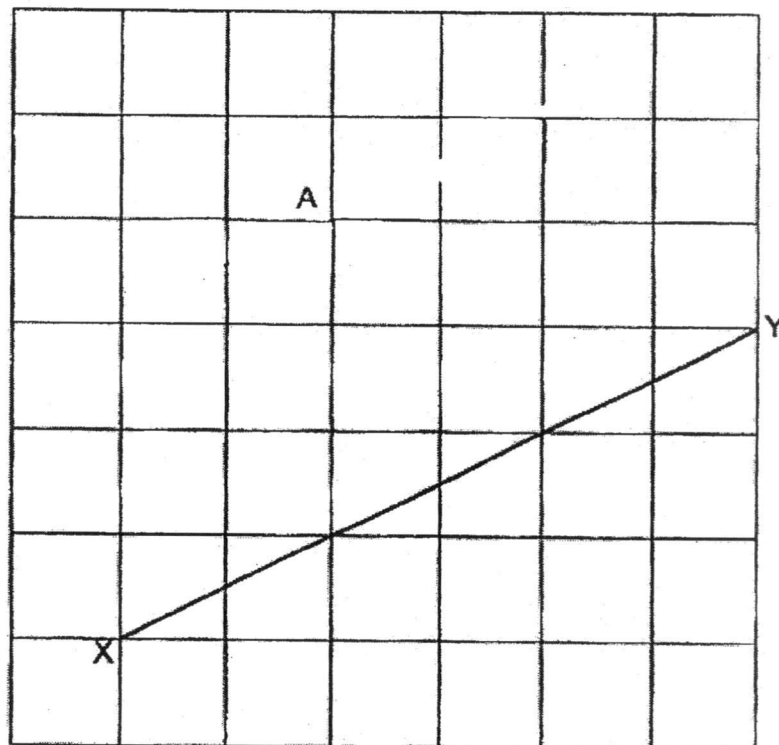   Express your answer in its simplest form.
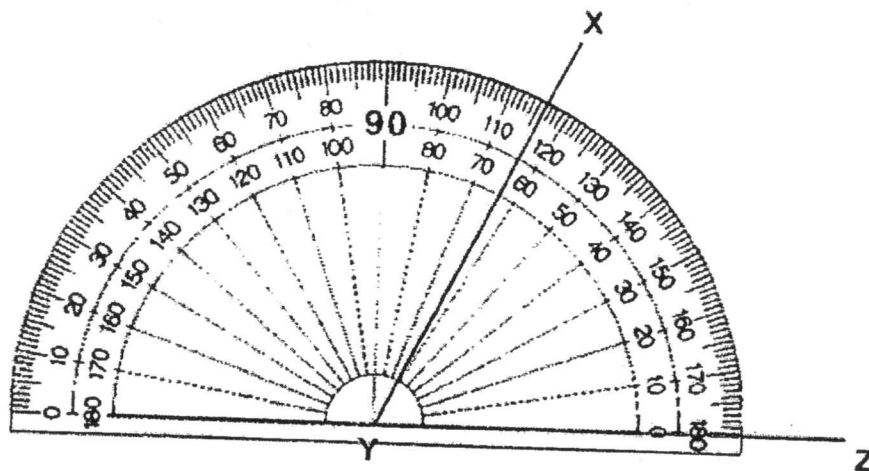
Answer : _____

22. Mrs Tan had a total of 45 blue markers and black markers. $\frac{4}{9}$ of the markers are blue. How many blue markers did Mrs Tan have?

Answer : _____

23. The figure below shows a line XY and a point A. Draw a line parallel to XY, passing through point A. Label it PQ.

24. What is the size of ∠XYZ?

X

90

Y   Z

Answer : _____ °

25. A whole number when rounded to the nearest hundred is 30 000.
What is the largest possible number?

Answer : _____

26. Find the sum of the first three common multiples of 3, 4 and 6.

Answer : _____

27. What is the number when divided by 18 gives a quotient of 589 and a remainder of 4?

Answer : _____

28. Mr Lim bought 4 m of wire. Anthony bought $\frac{3}{5}$ m less than Mr Lim.
How many metres of wire did Anthony buy?
Express your answer as a mixed number in its simplest form.

Answer : _____ m

29. Matilda is $\frac{3}{4}$ m tall. Her brother is $\frac{1}{6}$ m taller. Find the total height of the children.
Express your answer as a mixed number in its simplest form.

Answer : _____ m

30. Faizah had some money. She spent $\frac{1}{2}$ of it on a pair of shoes and $\frac{1}{3}$ of it on a gift. The pair of shoes and the gift cost $130 altogether. How much money did she have at first?
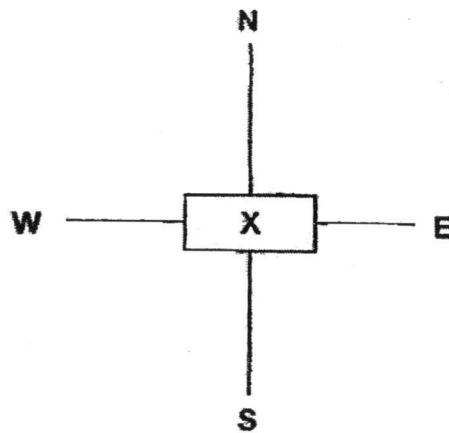
Answer : $_____

31. Henry read $\frac{3}{5}$ of a book on Monday. He had to read another 148 pages more before he could finish reading the book. How many pages did he read on Monday?

Answer : _____

32. Using a protractor and a ruler, draw ∠PQR = 68°. Mark and label the angle. The line PQ has been drawn for you.

P

Q
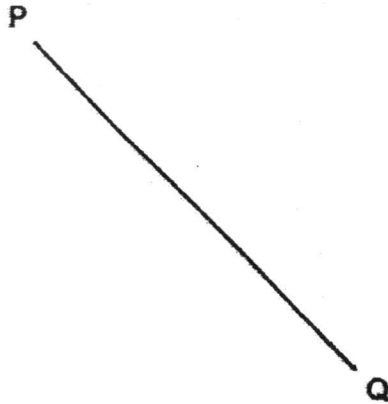
33. In the figure below, Bobby is standing at Point X, facing South-West. He makes a 270° turn in a clockwise direction. Which direction will he be facing after the turn?

N

W — X — E

S

Answer : _____

34. $\frac{3}{7}$ of the people who attended a party were adults. Half of the children were girls. There were 24 boys at the party. How many people attended the party?

Answer : _____

35. Mrs Ho is 6 times as old as her daughter now. In 3 years' time, their total age will be 55 years. How old is her daughter now?

Answer : _____

Questions 36 to 37 carry 3 marks each and questions 38 to 43 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(Total: 30 marks)

36. Jeremy estimates that there are more than 40 but less than 90 paper clips in a box. When he packs the paper clips into packets of 8, there will be 3 paper clips left. When he packs the paper clips into packets of 9, there will be a shortage of 5 paper clips. How many paper clips are there in the box?
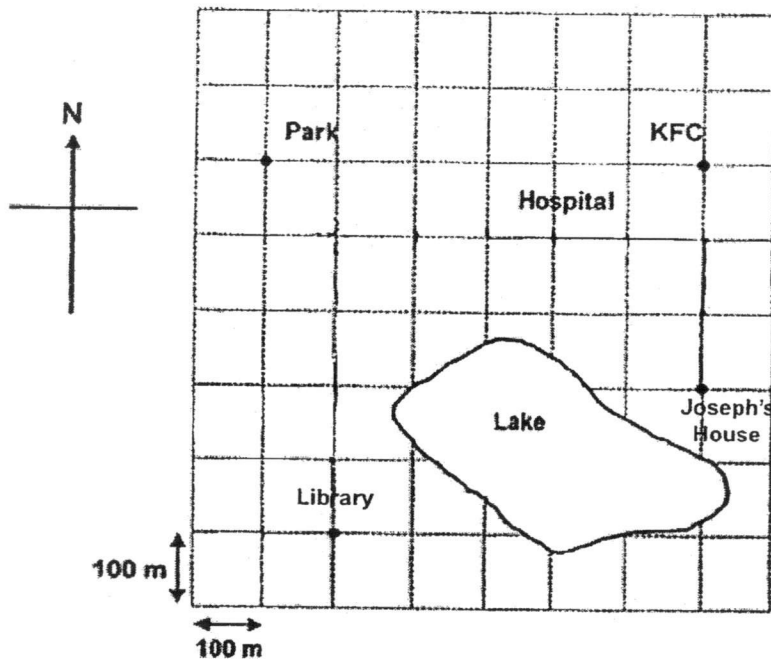
Ans: _____ [3]

37. Alice, Betty and Cindy had some stamps. Alice gave 80 stamps to Betty and 20 stamps to Cindy. Cindy also received 40 stamps from Betty. In the end, each girl had 300 stamps. How many stamps did Betty have at first?

Ans: _____ [3]

38. The square grid below shows the map of some places in Town X.

a) Joseph stood at a point in Town X.
The park was to Joseph's north and the library was to his east. Put a cross (X) on the map to show where Joseph was.

[1]

b) In which direction is Joseph's house from the hospital?

Ans: _____

c) The next day, Joseph cycled 200 m north and 500 m west from his house to go to his friend's house.
Trace Joseph's route on the map above.   [1]

d) In which direction is the friend's house from the library?

Ans: _____ [1]

38. Matthew has $\dfrac{5}{9}$ as much money as Nancy. Nancy has thrice that of Pearlyn. Matthew has $268 more than Pearlyn. How much do they have altogether?

Ans: _____ [4]

40. Sandra spent $\frac{2}{7}$ of her money on a television set. She spent the rest of her money on a refrigerator that cost $2348 and an oven that cost $152. How much more money did she pay for the television set than the oven?

Ans: _____ [4]

41. A box contains some red, blue and white marbles.
    There is a total of 65 red marbles and blue marbles.
    There is a total of 35 red marbles and white marbles.
    The number of blue marbles is thrice the number of white marbles.
    What fraction of the marbles is red?
    Express your answer in its simplest form.

Ans: _____ [4]

42. Jane and Kathy had the same number of stickers at first. After Jane gave away 220 stickers and Kathy lost 12 stickers, Kathy had 3 times as many stickers as Jane. How many stickers did they have altogether at first?

Ans: _____ [4]

43. A florist had 300 more tulips than roses at first. She then ordered another 50 tulips and 70 roses. In the end, she had 3260 tulips and roses in all. How many roses did she have at first?

Ans: _____ [4]

END OF PAPER

SCHOOL   :   NANYANG PRIMARY SCHOOL
LEVEL   :   PRIMARY 4
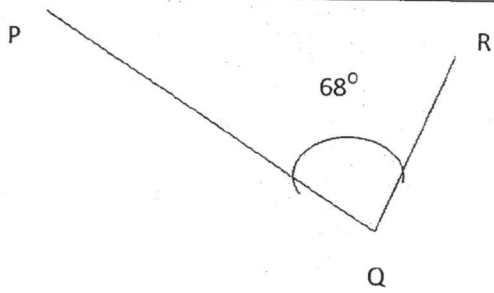SUBJECT :   MATH
TERM   :   2017 SA1

CONTACT :

SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	4	1	1	3	4	1	1	3	3

Q 11	Q12	Q13	Q14	Q15
2	2	2	1	4

SECTION B

Q16	Q17	Q18	Q19	Q20
1,2,3,6,10,15,30	1,2,3,6	63	305	39/7
Q21	Q22	Q23	Q24	Q25
3/7	20	-	64	30049

Q26)	$12 + 24 + 36 = \underline{\textbf{72}}$
Q27)	$598 \times 18 = 10602$ $10602 + 4 = \underline{\textbf{10606}}$
Q28)	$4m = 20/5$ $20/5 - 3/5 = 17/5 = \underline{\textbf{3 2/5}}$
Q29)	$\frac{3}{4} + 1/6 = 11/12$ $9/12 + 11/12 = 20/12 = 5/3 = \underline{\textbf{1 2/3}}$
Q30)	$\frac{1}{2} + 1/3 = 5/6$ $\$130 = 5/6$ $\$130/5 = \$26$ $\$26 \times 6 = \underline{\textbf{\$156}}$
Q31)	$5/5 - 3/5 = 2/5$ $148 = 2/5$

	1/5 = 148/2 = 74 3/5 = 74 x 3 = **222**

Q32	
	P R
	       68°
	
	        Q

Q33	south-east
Q34	7/7 - 3/7 = 4/7 24 = half 24 + 24 = 48 48/4 = 12 12 x 7 = **84**
Q35)	55 - 3 = 52 52 – 3 = 49 49/7 = **7**
Q36)	8 : 48, 56, 64, 72, 80 +3 : 51, 59. **67**, 75, 83 9 : 45, 54, 63, 72, 81 -5 : 40, 49, 48, **67**, 78 **Ans : 67**
Q37)	A : B : C -80 : 80 : 20 -20 : -40 : 40 300 : 300 : 300 300 + 40 = 340 340 – 80 = **260**
Q38)	(a) { X marked on the line left of library} (b) South-east (c) - (d) North
Q39)	2 units → $265

	1 unit → $268/2 = $134
	17 units → $134 x 7 = $2278
Q40)	7/7 - 2/7 = 5/7
	5 units → 2348 + 152 = 2500
	1 unit → 2500/5 = 500
	2 units → 500 x 2 = 1000
	Difference → 1000 − 152 = 848 (**Ans : $848**)
Q41)	65 − 35 = 30
	2 units → 30
	1 unit→ 30/2 =15
	Red → 35 − 15 = 20
	Total → 65 + 15 = 80
	20/80 = **1/4**
Q42)	220 − 12 = 208
	208/2 = 104
	104 x 2 = 208
	220 x 2 = 440
	208 + 440 = **648**
Q43)	3260 − 300 − 50 − 70 = 2840
	2840/2 = **1420**