SECOND SEMESTRAL EXAMINATION 2016

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

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

Total:	**/ 100**

Name: _____ ( )

Class: Primary 4 ( )

Date: _____

Any query on marks awarded should be raised by **4 Nov 2016.** 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.

Section A

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 which of the following numbers does the digit 2 stand for 200?

(1) 9280
(2) 5120
(3) 2864
(4) 1302

2. 15 thousands and 9 tens is the same as _____.

(1) 159
(2) 1590
(3) 15 009
(4) 15 090

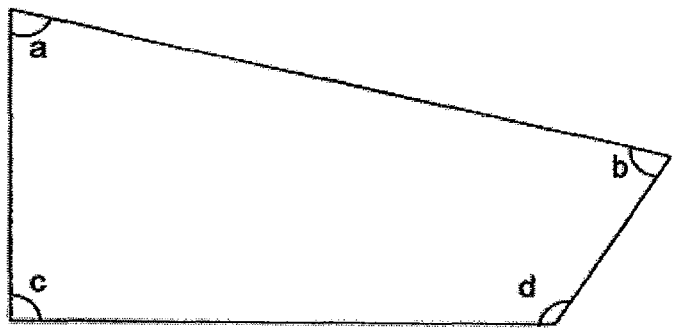
3. In the number 23 057, which digit is in the hundreds place?

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

4. Which of the following is **not** an equivalent fraction of $\frac{1}{4}$?

(1) $\frac{2}{8}$
(2) $\frac{3}{12}$
(3) $\frac{4}{18}$
(4) $\frac{5}{20}$

5. In the figure, which angle is greater than a right angle?



(1) $\angle a$
(2) $\angle b$
(3) $\angle c$
(4) $\angle d$

6. Express 0.06 as a fraction in its simplest form.

(1) $\frac{3}{50}$
(2) $\frac{1}{10}$
(3) $\frac{1}{6}$
(4) $\frac{3}{5}$

7. Ravi completed the 100 m race at 1 min 32 s. Junlong ended the same race 14 s later. How many seconds did Junlong take to complete the race?

(1) 146
(2) 118
(3) 106
(4) 78

8. Bernard collected 3500 stamps. He gave all his stamps equally to his 5 friends. How many stamps did each of his friends get?

(1) 70
(2) 700
(3) 875
(4) 3495

9. Calvin bought $\frac{2}{5}$ kg of apples. He bought another $\frac{9}{10}$ kg of oranges. What was the total mass of fruits Calvin bought?

(1) $1\frac{5}{50}$ kg
(2) $1\frac{3}{50}$ kg
(3) $1\frac{3}{10}$ kg
(4) $1\frac{1}{2}$ kg

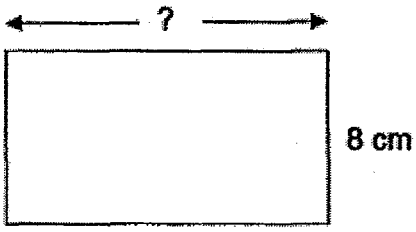
10. Chengli bought 1 soccer ball at \$12.95 and 1 badminton racket at \$19.95. He gave the cashier \$50. How much change did he receive?

(1) \$17.10
(2) \$30.05
(3) \$32.90
(4) \$37.05

11. Kath mixed 0.8 *l* of orange syrup with 1.45 *l* of water to make a cocktail. She then poured all the cocktail equally into 9 cups. How many litres of cocktail were there in each cup?

(1) 0.17 *l*
(2) 0.25 *l*
(3) 2.25 *l*
(4) 20.25 *l*

12. The following figure shows a rectangle. The breadth of the rectangle is 8 cm and its area is 96 cm^2. What is the length of the rectangle?



(1) 768 cm
(2) 80 cm
(3) 40 cm
(4) 12 cm

13. Annabelle is watching a concert in a performance hall. She is sitting in the front row. To her right, there are 29 seats and to her left, there are 25 seats. Behind her, there are 99 rows. There are an equal number of seats in each row. How many seats are there in the performance hall altogether?

(1) 154
(2) 5346
(3) 5400
(4) 5500

Study the table below to answer Questions 14 and 15.
The table below shows the number of carnations and roses sold by Mrs Tan from Monday to Wednesday.

Day	Monday	Tuesday	Wednesday
Carnations	23	27	25
Roses	?	31	33

14. How many carnations were sold on Monday and Wednesday?

(1) 48
(2) 75
(3) 64
(4) 93

15. Each rose cost $2 respectively. Mrs Tan collected $108 after selling the roses on Monday. How many roses did Mrs Tan sell on Monday?

(1) 26
(2) 50
(3) 54
(4) 104

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)

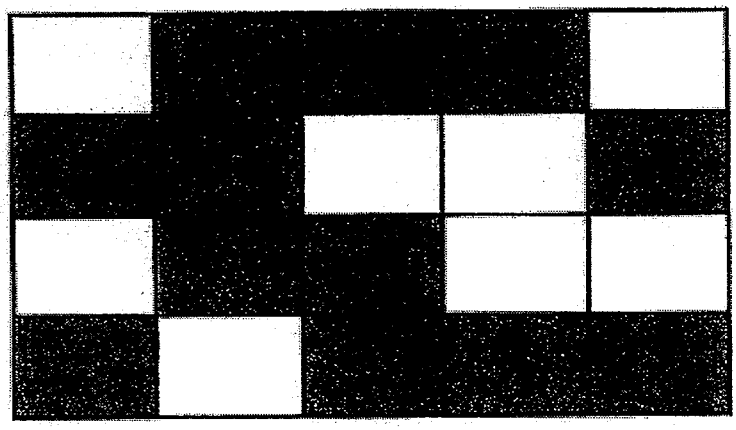
16. Write thirteen thousand, five hundred and seven in figures.

Answer : _____

17. Express $\frac{6}{24}$ in the simplest form.

Answer : _____

18. The figure below is made up of identical rectangles. What fraction of the figure is shaded? Express the answer in the simplest form.



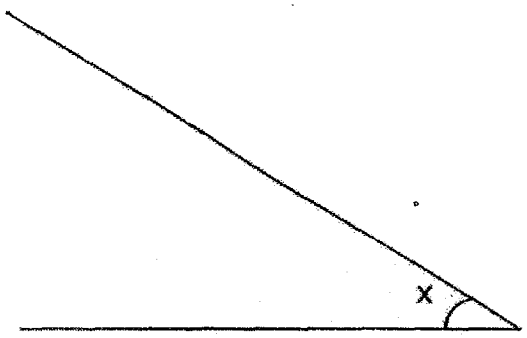
Answer : _____

19. What is the value of $\frac{6}{7} \div \frac{1}{2}$?

Express your answer as a mixed number.

Answer : _____

20. Measure and write down the size of $\angle x$.

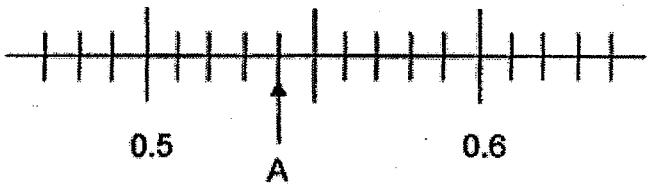


Answer : _____°

21. Write 7 tenths as a decimal.

Answer : _____

22. Write the decimal represented by A.



Answer : _____

23. Arrange the following numbers in order from the greatest to the smallest.

0.102 , 0.201 , 0.012

Answer : _____ (greatest) , _____ , _____ (smallest)

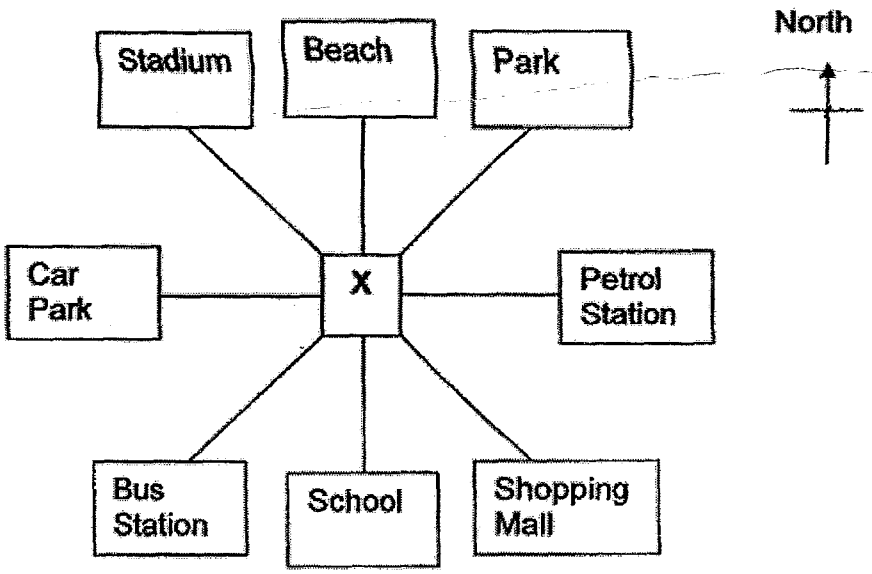
24. Round off 24.61 to the nearest whole number.

Answer : _____

25. Danielle earned a monthly salary of $5000. She saved $1499 of her salary. She gave twice the amount of money that she saved to her brother and spent the rest. How much money did she spend?

Answer : $_____

26. The diagram below shows the different locations in a town.



Bala is standing at the spot marked X and is facing the petrol station.

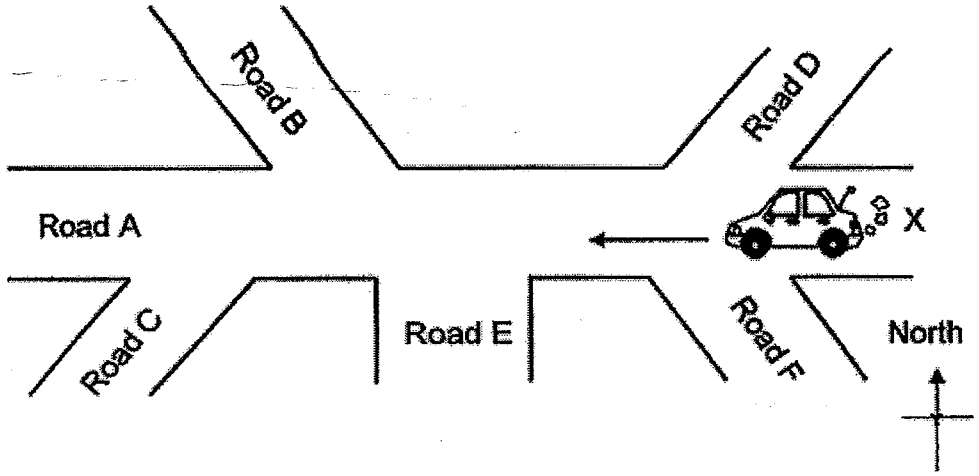
He makes a 90° anti-clockwise and then a $\frac{3}{4}$ turn clockwise. Which location is he facing now?

Answer : _____

27. The figure below shows a line AB. Using a protractor, construct an angle such that ∠ABC = 123°. Mark and label the angle.

A _____ B

28. The figure below shows a road map.



A car moved along Road A from Point X.

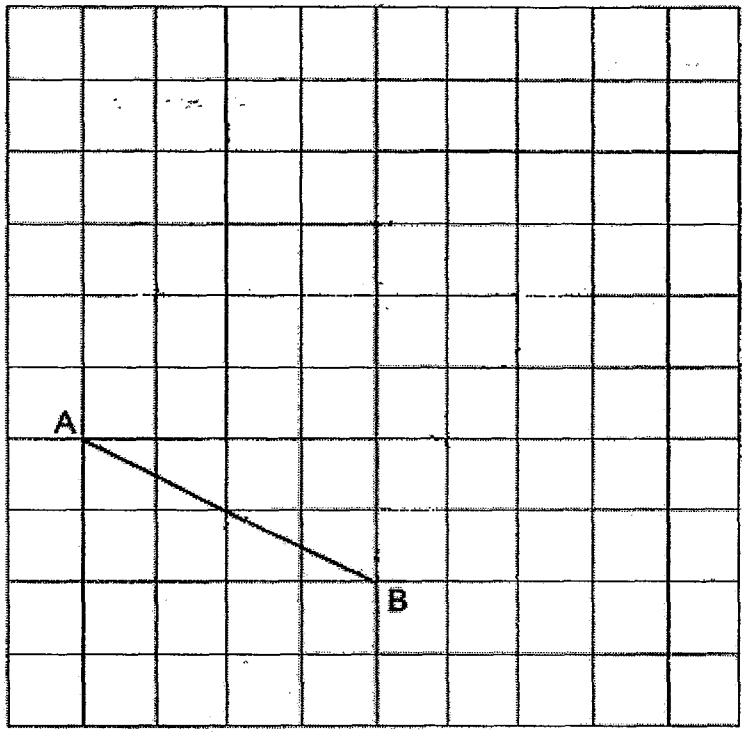
(a) Which direction was the car facing when travelling along Road A?

(b) After travelling for some time, the car turned into another road and faced south-west. Which road did it turn into?

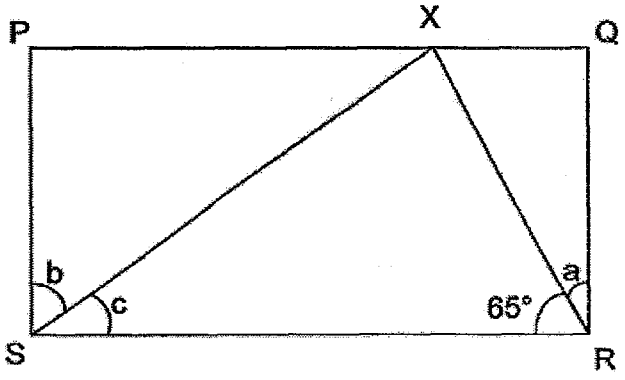
Answer : (a) _____

(b) Road _____

29. Draw and label a square ABCD on the square grid provided.

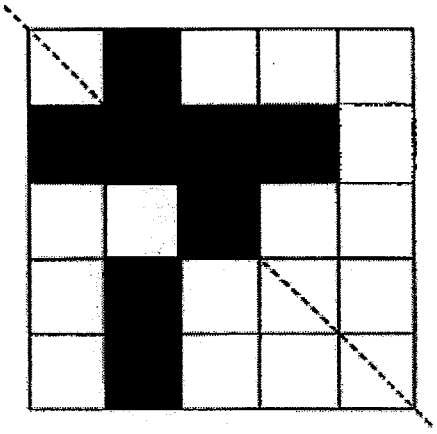


30. In the figure below, PQRS is a rectangle. Given that $\angle XRS = 65°$, find the sum of $\angle a$, $\angle b$ and $\angle c$.

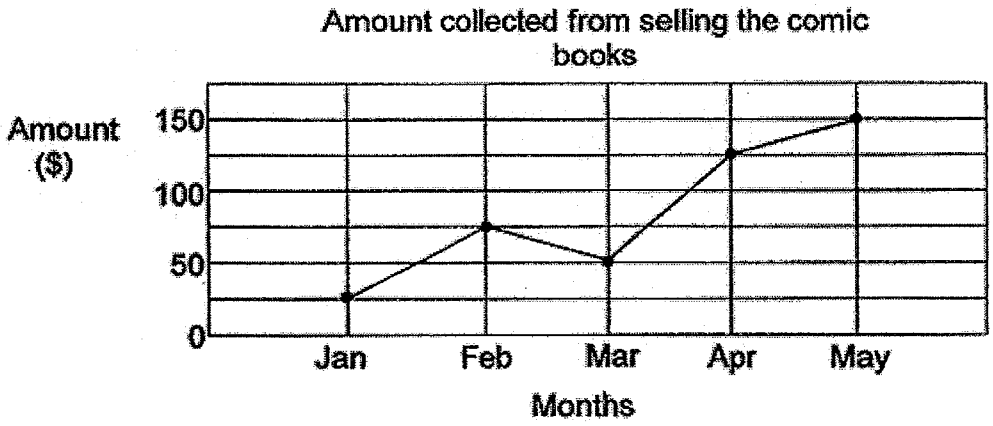


Answer : _____

31. Shade 2 squares in the figure below with the dotted line as the line of symmetry.



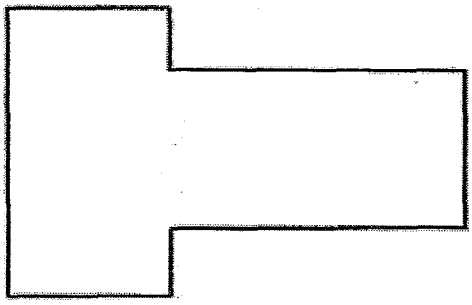
32. The line graph below showed the amount of money Jessie collected from selling comic books in her shop from January to May.



Each comic cost $5. How many comic books did Jessie sell in April?

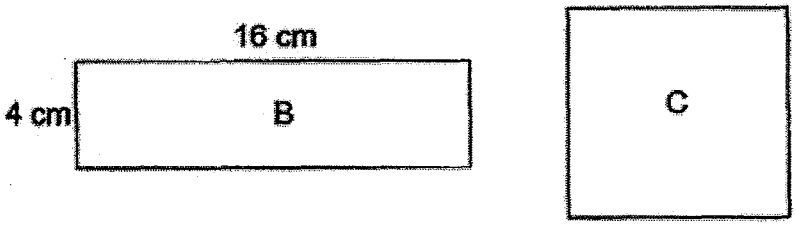
Answer : _____

33. The figure below is made up of 2 identical rectangles. The length of each rectangle is twice its breadth. The perimeter of the figure is 180 cm, what is the length of each rectangle?



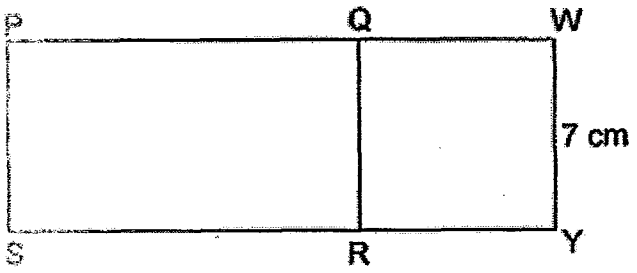
Answer : _____ cm

34. The rectangle B has the same area as the square C as shown below. What is the length of square C?



Answer : _____ cm

35. The figure below is made up of 1 rectangle and 1 square. The length of PQ is twice the length of QW. What is the area of the whole figure?



Answer : _____ cm^2

Section C

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. A dressmaker had 45 m of cloth. She used some cloth to make 8 identical skirts and the remaining cloth to make 2 identical blouses. She used 2.83 m of cloth for each skirt. How much cloth did she use to make each blouse? Round your answer to one decimal place.

Ans: _____ [3]

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37. Sandy left her house at 7.25 p.m. to watch a movie at a cinema. She took $\frac{1}{2}$ h to walk from her house to the cinema. She was $\frac{1}{4}$ h early for the movie. What time did the movie start?

Express your answer in the 24-h clock.

Ans: _____ [3]

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38. Daphne bought some sugar. On Monday, Daphne bought $\frac{3}{5}$ kg of sugar. On Tuesday, she bought $\frac{1}{3}$ kg more sugar than that of Monday.

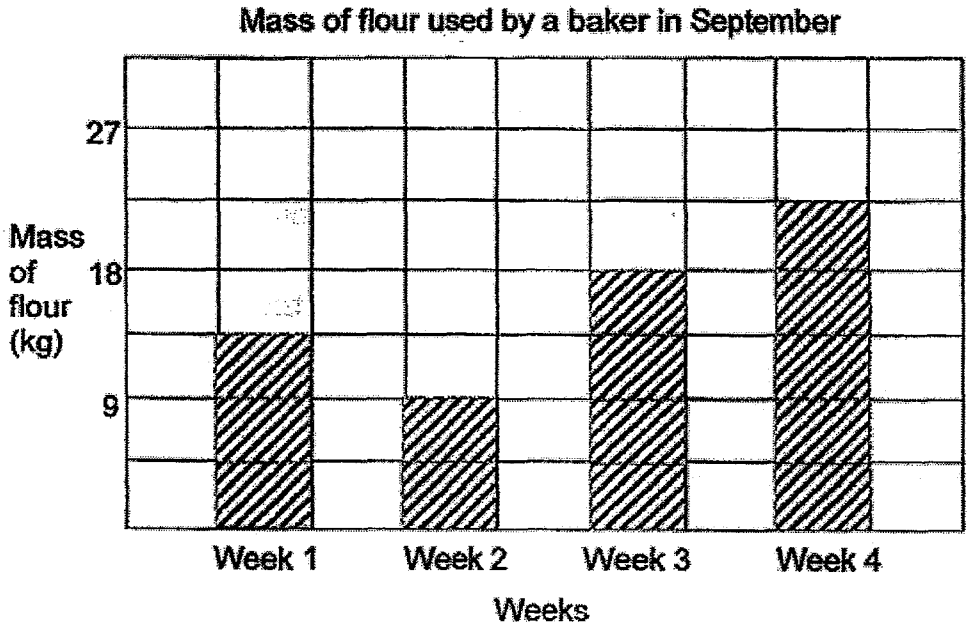
a) How many kilograms of sugar did Daphne buy on Tuesday?

b) What was the total mass of sugar she bought on Monday and Tuesday? Express your answer as a mixed number.

Ans: (a)_____ [2]

(b)_____ [2]

39. The graph below shows the mass of flour used by a baker in September.



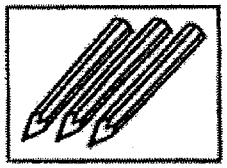
a) What was the mass of flour used by the baker in the odd weeks of September?

Ans: _____ [1]

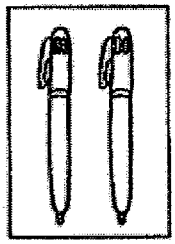
b) Each kilogram of flour cost $2.
Each statement below is either true (T), false (F) or not possible to tell (NPTT) from the information given. For each statement, put a tick (✓) in the correct column. [3]

	Statement	T	F	NPTT
i)	The baker used more than 15 kg of flour in Week 3.			
ii)	The baker spent $45 on the flour used in Week 4.			
iii)	The baker spent more money on the total flour used in the odd weeks than the total flour used in the even weeks.			

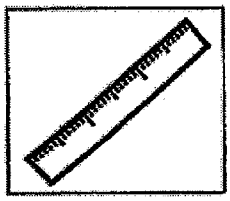
40. Study the diagrams below.



Pencils
3 for $1.45



Pens
2 for $2.20



Rulers
1 for $0.50

The stationery above were only sold in packets.

a) What was the cost of 12 pencils?

b) Li Cheng packed a bag of stationery which consisted of 12 pencils, 2 pens and 2 rulers. What was the greatest possible number of bags of stationery he could buy with $100?

Ans: (a) _____ [1]

(b) _____ [3]

41. Anna and Chris had 292 sweets. Anna had 3 times as many sweets as Chris. Chris gave 25 of his sweets to his sister while Anna gave some of her sweets to her friends. Anna was left with 4 times as many sweets as Chris. How many sweets did Anna have in the end?

Ans: _____ [4]

42. A store had 300 blue and yellow shirts for sale. After selling 111 blue shirts and $\frac{1}{5}$ of the yellow shirts, there was an equal number of blue and yellow shirts left. How many yellow shirts were there for sale at first?

Ans: _____ [4]

43. Ally was only given 4 number cards as shown below.

She had to form all possible 3-digit odd numbers using the number cards given. In every 3-digit odd number, each card could only be used at most once. How many possible ways could she form with the given number cards?

Ans: _____ [4]

END OF PAPER

ANSWER SHEET

SCHOOL : NANYANG PRIMARY SCHOOL
LEVEL : PRIMARY 4
SUBJECT : MATH
TERM : SA2

CONTACT :

SECTION A

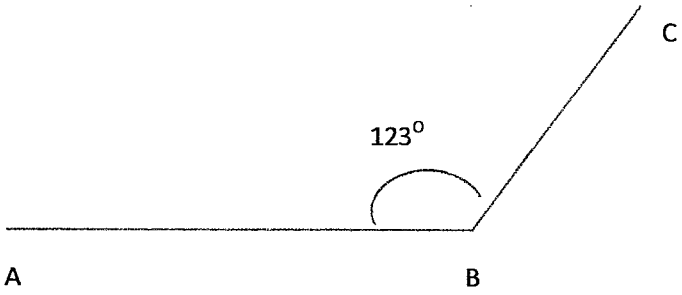
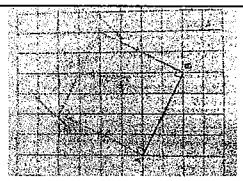
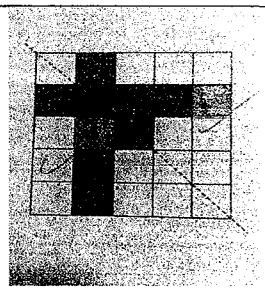
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	4	1	3	4	1	3	2	3	1

Q 11	Q12	Q13	Q14	Q15
2	4	4	1	3

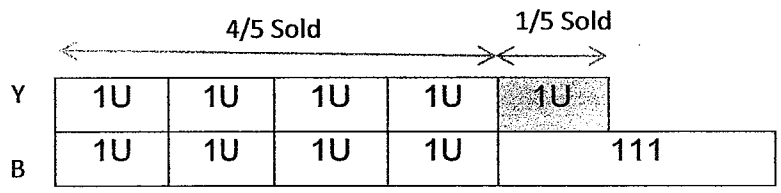
SECTION B

Q16	Q17	Q18	Q19	Q20
13507	1/4	3/5	1 5/14	32

Q21	Q22	Q23	Q24
0.7	0.54	0.201, 0.102, 0.012	25

Q25)	$5000–$1499 = $3501 $1499 x 2 = $2998 $3501 - $2988 = $<u>503</u>
Q26)	Car Park
Q27)	
Q28)	(a) West (b) Road C
Q29)	
Q30)	$90^o - 65^o = 25^o$ $90^o + 25^o =$ <u>115^o</u>
Q31)	
Q32)	$125 ÷ $5 = <u>25</u>
Q33)	180 ÷ 10 = 18 18 x 2 = <u>36</u>
Q34)	16 x 4 = 64 8 x8 = <u>64</u>

Q35)	QW → 7 PQ → 7 x 2 = 14 A → 7 x 7 = 49 B → 14 x 7 = 98 Total → 49 + 98 = <u>147</u>
Q36)	8S → 2.83 x 8 = 22.64 2B → 45 – 22.64 = 22.36 1B → 22.36 ÷ 2 = 11.18 ≈ 11.2 Ans : <u>11.2 m</u>
Q37)	 $\frac{1}{2}$ h = 30 min $\frac{1}{4}$ h = 15 min 8.10 pm → <u>2010</u>
Q38)	$\frac{3}{5} + \frac{1}{3} = \frac{9}{15} + \frac{5}{15} = \frac{14}{15}$ Ans : $\frac{14}{15}$ **kg** $\frac{14}{15} + \frac{9}{15} = \frac{23}{15} = 1\frac{8}{15}$ Ans : **1** $\frac{8}{15}$ **kg**
Q39)	(a) 18 – 9 = 9 9 ÷ 2 = 4.5 9 + 4.5 = 13.5 13.5 + 18 = 31.5 Ans : <u>31.5 kg</u>

	(b) (i) (T) (ii) 22.5 x $2 = $45 (T) (iii) 13.5 + 18 = 31.5 9 + 22.5 = 31.5 (F)
Q40)	(a) 12 ÷ 3 = 4 4 x $1.45 = $5.80 (b) $5.80 + $2.20 + $0.50 x 2 = $5.80 + $2.20 + $1.00 = $9 $100 ÷ $9 = 11 R $1 Ans : 11
Q41)	4U → 292 1U → 292 ÷ 4 = 73 C left → 73 – 25 = 48 A left → 48 x 4 = 192
Q42)	 9U → 300 – 111 = 189 1U → 189 ÷ 9 = 21 Yellow → 5U 5U → 21 x 5 = 105
Q43)	205, 250, 209, 290, 259, 295 502, 520, 529, 592, 509, 590 902, 920, 905, 950, 925, 952 Total **8** odd numbers can be updated.