NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2013

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

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

Total:	/ 100

Name: _____ ( )

Class: Primary 4 ( )

Date: 29 October 2013

Parent's Signature: _____

Any query on marks awarded should be raised by 6 November, 12 noon. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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. 88 thousands and 5 tens is the same as _____.

(1) 885
(2) 8850
(3) 88 005
(4) 88 050

2. Complete the following number pattern.

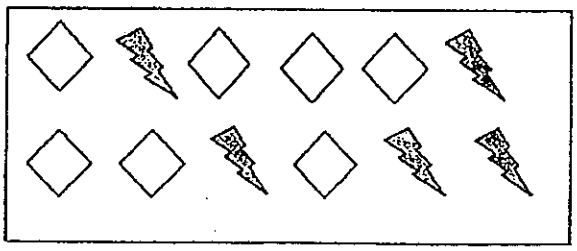
9 , 13 , 17 , _____, _____ , 29

(1) 18, 19
(2) 18, 28
(3) 20, 21
(4) 21, 25

3. Which of the following numbers when rounded off to the nearest ten becomes 93 400?

(1) 93 344
(2) 93 395
(3) 93 407
(4) 93 454

4. What fraction of the shapes in the box are ?



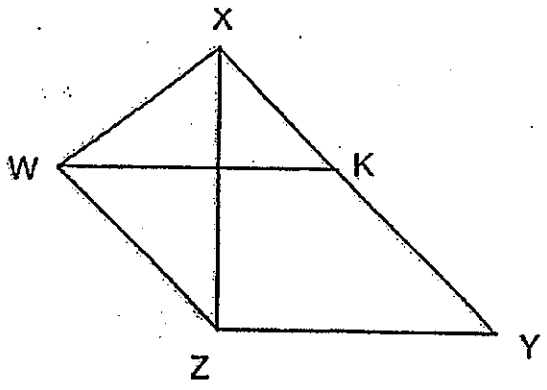
(1) $\frac{5}{12}$ (2) $\frac{7}{12}$

(3) $\frac{5}{7}$ (4) $\frac{7}{5}$

5. What is the number when 248.73 is rounded off to 1 decimal place?

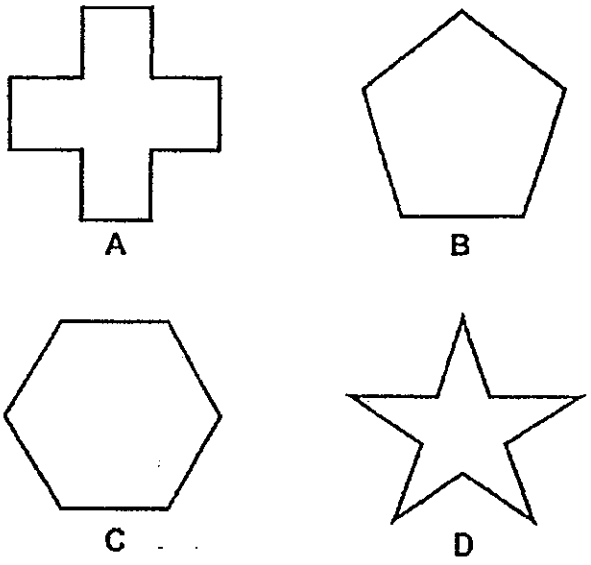
(1) 248.0 (2) 248.7
(3) 248.8 (4) 249.0

6. One of the lines in the figure below is parallel to WZ. Which line is parallel to WZ?



(1) XY (2) XZ
(3) WX (4) WK

7. All the figures below are made up of equal sides. Which of the following figures can tessellate?

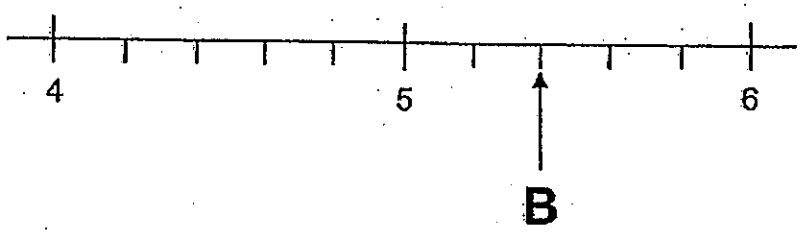


(1) A and B only
(2) A and C only
(3) B and C only
(4) A and D only

8. Which of the following is the best estimate for $4238 \div 7$?

(1) $4200 \div 7$
(2) $4200 \div 10$
(3) $4300 \div 7$
(4) $4300 \div 10$

9. Which of the following mixed numbers is represented by the letter B in the number line shown?



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

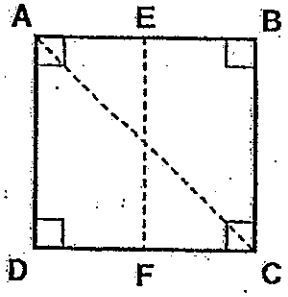
10. Juli bought 23.49 kg of rice and Jonathan bought 49.56 kg of rice. What was the total mass of rice bought? Round off your answer to the nearest tenth.

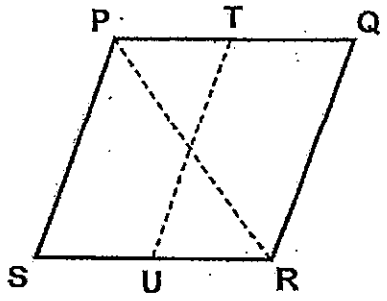
(1) 26.0 kg
(2) 26.1 kg
(3) 73.0 kg
(4) 73.1 kg

11. John left his home for school at 7.07 a.m. and reached school at 7.23 a.m. How long did he take to walk to school? Give your answer in seconds.

(1) 660 s
(2) 960 s
(3) 1080 s
(4) 1800 s

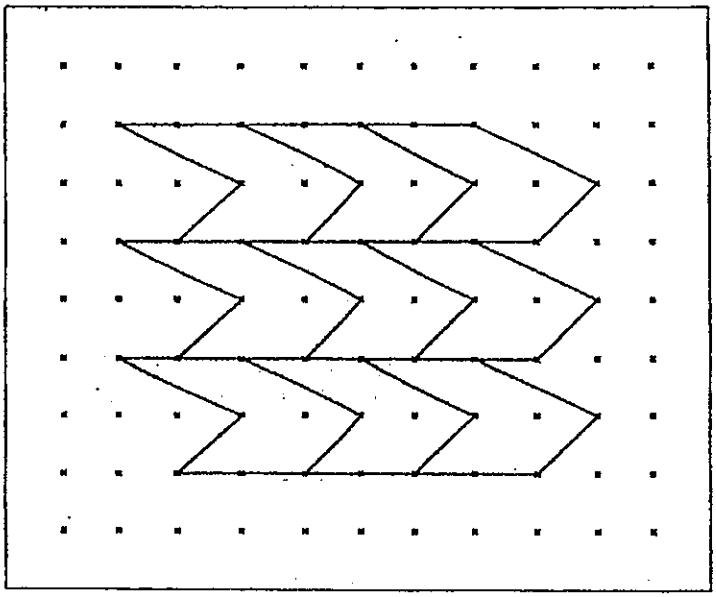
12. Figures ABCD and PQRS have four equal sides each. Which one of the lines is **not** a line of symmetry?





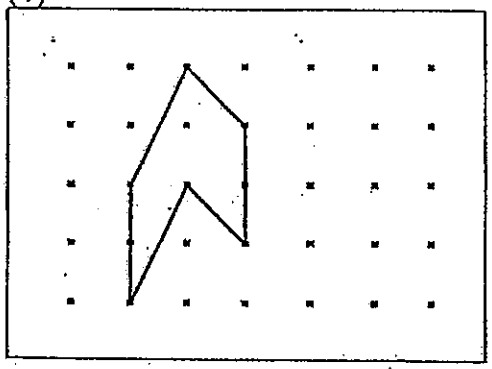
(1) AC
(2) EF
(3) PR
(4) TU

13. The pattern in the box shows part of a tessellation.

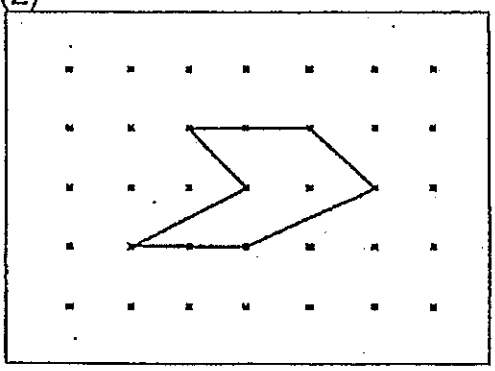


Which one of the following is the unit shape used in the tessellation above?

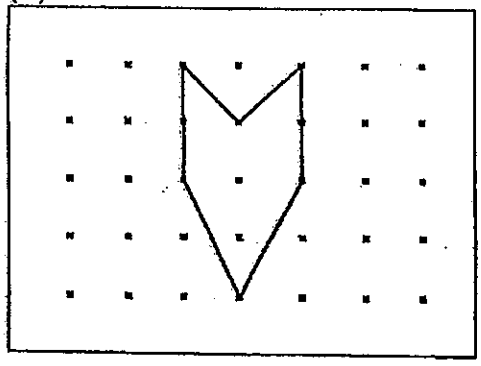
(1)



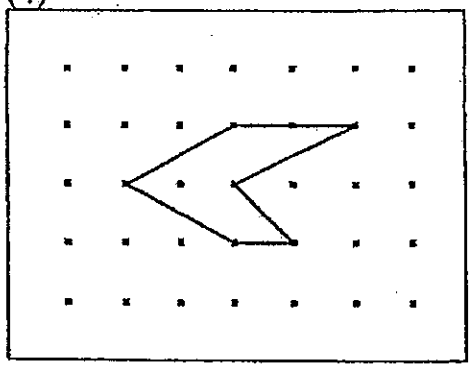
(2)



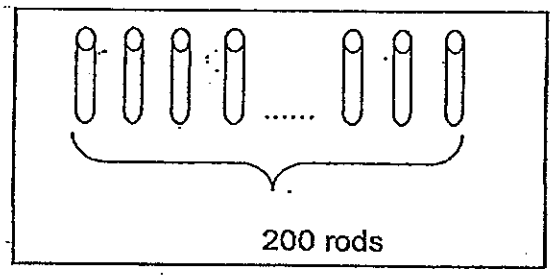
(3)



(4)

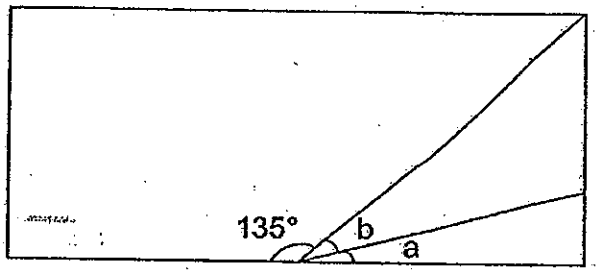


14. Mr Sandro arranges 200 rods in a straight row on a table as shown in the diagram below. The rods are spaced equally apart. The distance between the first and the sixth rod is 60 cm. What is the distance between the first rod and the last rod?



(1) 1 990 cm
(2) 2 000 cm
(3) 2 388 cm
(4) 2 400 cm

15. In the diagram below, ∠b is twice that of ∠a. What is the value of ∠b? The diagram is not drawn to scale.



(1) 15°
(2) 60°
(3) 30°
(4) 45°

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. Some factors of 44 are 1, 2, 4 and 44. What are the other 2 factors of 44?

Answer : _____ , _____

17. What is the remainder when 5160 is divided by 9?

Answer : _____

18. Write 27 hundredths in figures.

Answer : _____

19. Express 0.7 as a fraction.

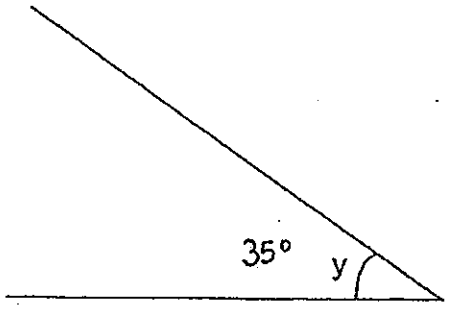
Answer : _____

20. Arrange these numbers from smallest to the biggest.

0.581 , 0.3 , 0.603 , 0.025

Answer : _____ , _____ , _____ , _____
(smallest) (biggest)

21. Measure and write down the size of ∠y.



Answer : _____ °

22. Which two of the fractions below are smaller than $\frac{1}{2}$?

$\frac{2}{4}$, $\frac{3}{5}$, $\frac{4}{9}$, $\frac{5}{11}$

Answer : _____ , _____

23. What is the value of $\frac{2}{3} + \frac{5}{6}$?

Express your answer as a mixed number.

Answer : _____

24. Express $\frac{8}{12}$ in its simplest form.

Answer : _____

25. James made 7.57 *l* of lemonade. He served 2.38 *l* of lemonade to his guests. How much lemonade did he have left? Round off your answer to the nearest litre.

Answer : _____ *l*

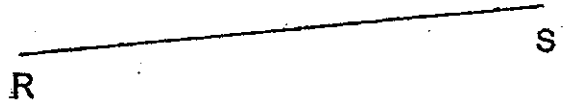
26. Bing Wei cuts a wooden plank measuring 11 m in length into 4 equal pieces. What is the length of each piece?

Answer : _____ m

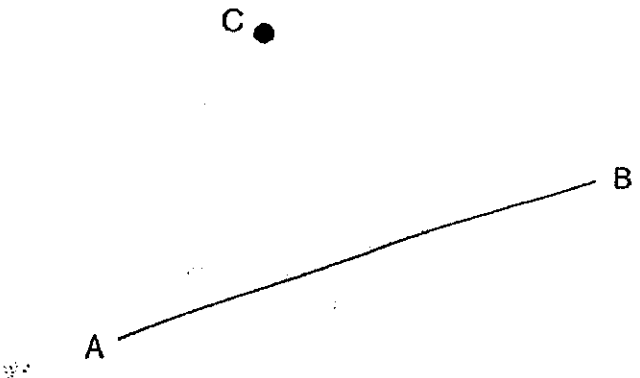
27. The table below shows the number of teachers and pupils from a school who went to the Road Safety Park. A total of 180 teachers and pupils went to the Road Safety Park. 168 of them are pupils. Some information is missing. Complete the following table by writing the correct answer on the lines provided.

	Male	Female
Number of Teachers	a) _____	8
Number of Pupils	92	c) _____
Total	b) _____	d) _____

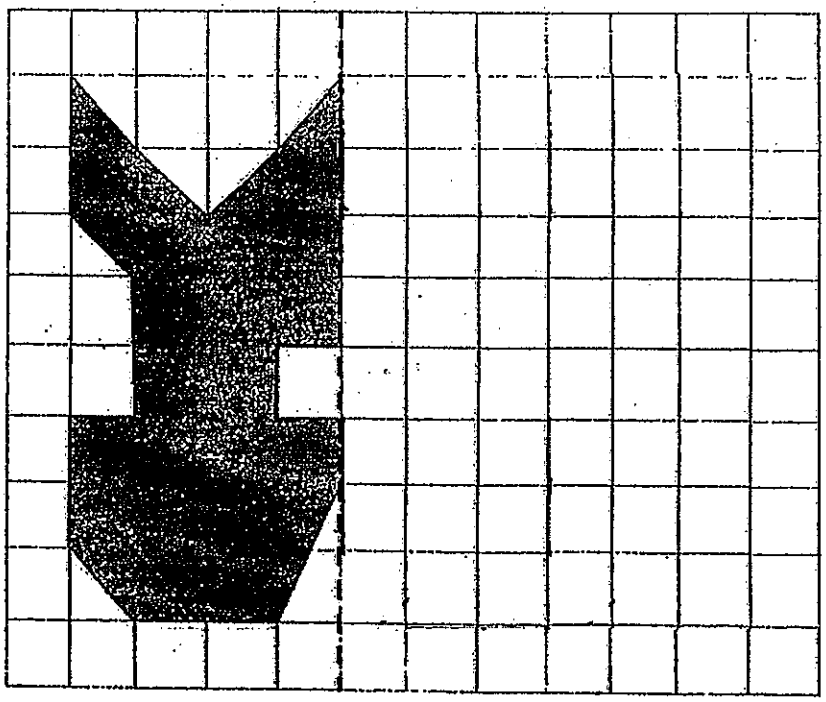
28. Using the line RS given below, construct an angle such that $\angle RST = 70°$. Mark and label the angle.



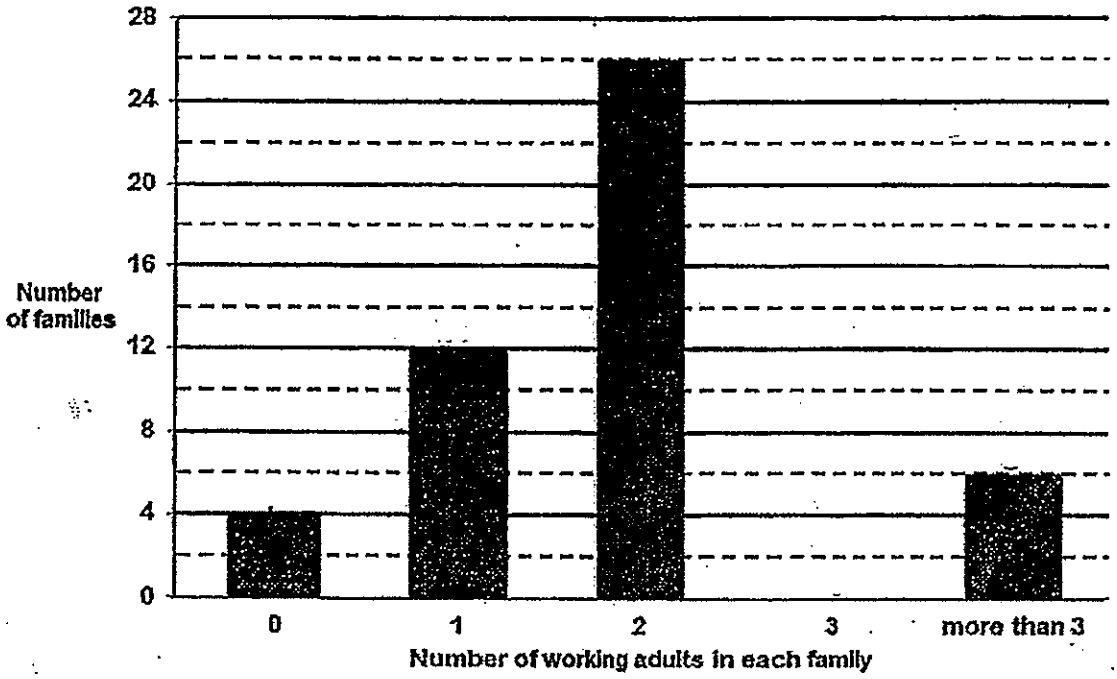
29. In the space below, draw a parallel line to the given line AB passing through C.



30. In the square grid below, complete the symmetric figure with the dotted line as the line of symmetry. Shade the figure.



31. The bar graph below shows the number of working adults in each family living in a neighbourhood.



a) How many families have fewer than two working adults?

Answer : _____

b) How many families are living in the neighbourhood?

Answer : _____

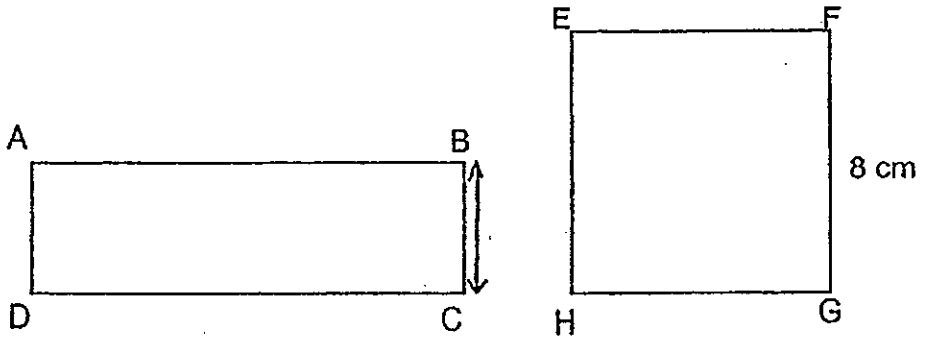
32. A plant measured 33.6 cm in the beginning. It grew 1.57 cm every week for the next 6 weeks. What was the height of the plant after 6 weeks?

Answer : _____ cm

33. Joanne paid $18.80 for 2 identical notebooks and 2 identical pens. Each notebook cost 3 times as much as each pen. What was the cost of each pen?

Answer : $ _____

34. In the figure below, rectangle ABCD and square EFGH have the same area. The length of BC is half the length of FG. Find the length of AB.



Answer : _____ cm

35. Tracy baked 45 apple pies and 105 blueberry pies. She then sold $\frac{2}{5}$ of the apple pies and $\frac{5}{7}$ of the blueberry pies. How many pies did Tracy sell in all?

Answer : _____

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)

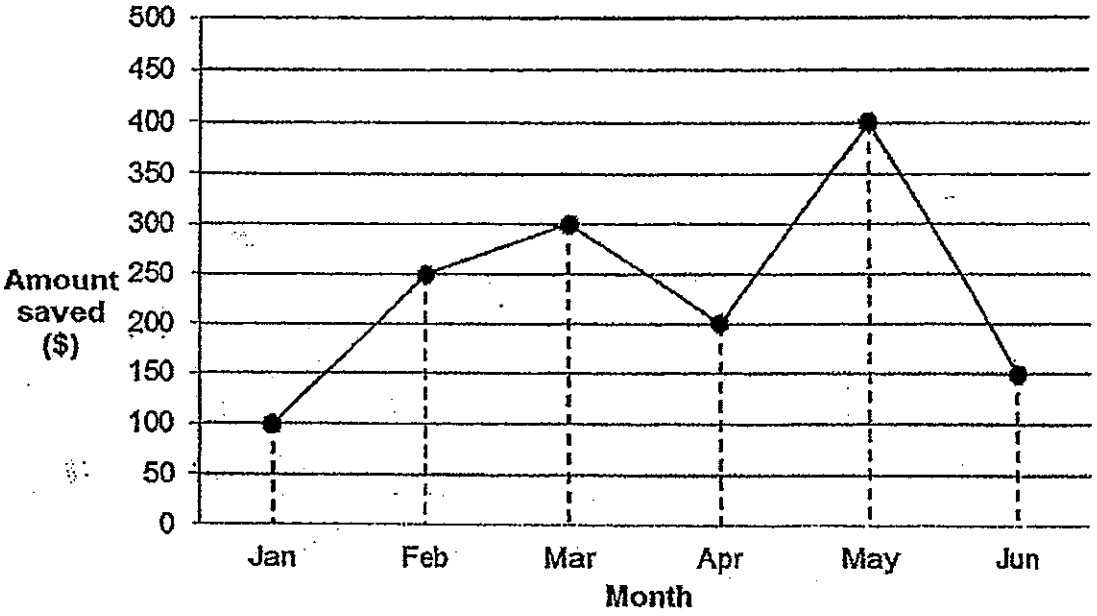
36. At a Floral Harmony exhibition, all the floral displays are placed on the tables in a straight row. Every 4^{th} floral display is marked with a ribbon and every 8^{th} floral display is marked with a toy butterfly. What is the position of the **third** display which is marked with both a ribbon and a toy butterfly?

Ans: _____ [3]

37. There were 16 more nails in Container A than Container B at first. After 38 nails were taken out from Container A and 96 nails were taken out from Container B, the number of nails in Container A became twice that of Container B. How many nails were there in Container B at first?

Ans: _____ [3]

38. The line graph below shows the amount of money Celeste saved in the last 6 months.



a) During which one-month period was the decrease in the amount of money saved the greatest?

b) What was this decrease in part (a)?

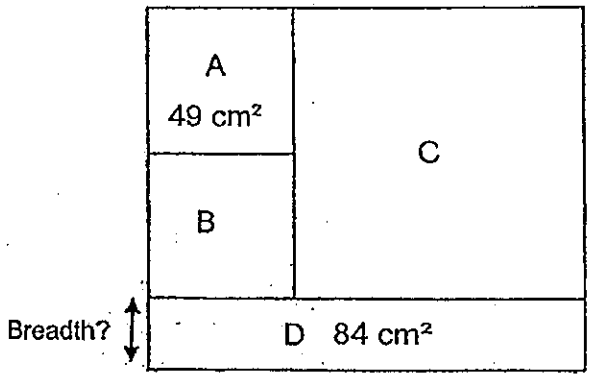
c) Celeste spent all her money equally on food and transport every month. Celeste's monthly allowance was $600. How much did Celeste spend on food in February?

Ans: a) Between_____ and _____ [1]

b) _____ [1]

c) _____ [2]

39. The figure below is made up of 2 identical squares A and B, a bigger square C and a rectangle D. The area of the square A is 49 cm² and rectangle D is 84 cm². Find the breadth of rectangle D.



Ans: _____ [4]

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40. Joanne wanted to buy 5 markers but was short of $2.25. She decided to buy 3 markers and had $0.25 left. How much money did Joanne have?

Ans: _____ [4]

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41. Mr Macdonald has ducks and cows in his farm. There are 20 animals and they have 66 legs altogether.

a) How many cows does Mr Macdonald have?

b) Mr Macdonald sold each duck for $20.50. How much money would he receive if he sold all the ducks?

Ans: a) _____ [3]

b) _____ [1]

42. When it is 14 00 on Wednesday in Singapore, it is 02 00 on Wednesday in New York. Mr Muthu left Singapore on Wednesday at 22 45 and his flight to New York took 18 hours and 40 minutes. What was the time and day in New York when Mr Muthu arrived there?

Ans: _____ , _____ [4]

43. Melanie writes 2 numbers on a piece of paper. She writes a whole number smaller than 10 and a proper fraction. The difference between the two numbers is $2\frac{5}{8}$. What is the product of these two numbers. Leave your answer as a mixed number.

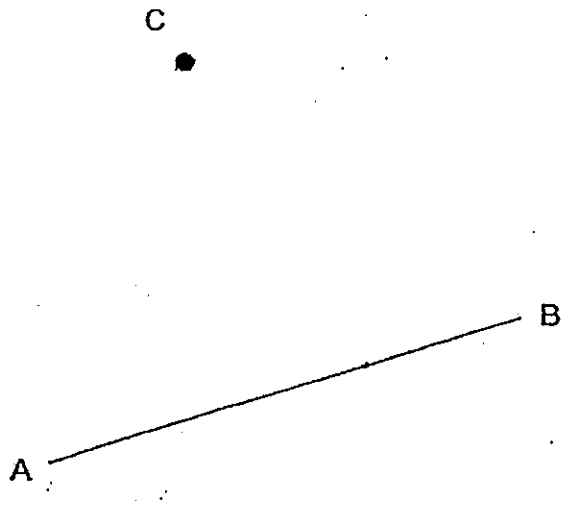
Ans: _____ [4]

END OF PAPER

Name: _____( )

Class: _____

29. In the space below, draw a parallel line to the given line AB passing through C.



Answer Ke

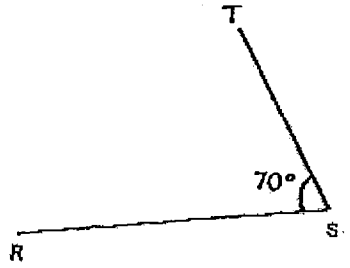
EXAM PAPER 2013

SCHOOL : NAYANG PRIMARY SCHOOL
LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : SA2

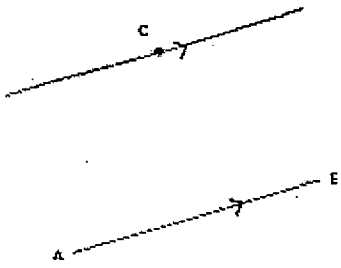
Booklet A

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

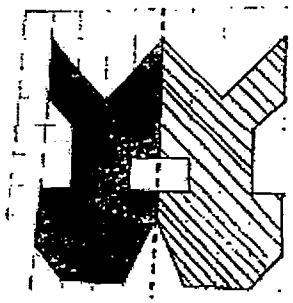
16. 11, 22
17. 3
18. 0.27
19. 7/10
20. 0.025, 0.3, 0.581, 0.603
21.35
22. 4/9, 5/11



23. $1\frac{1}{2}$
24. 2/3
25. 5
26. 2.75
27a) 4
b) 96
c) 76
d) 84



28.
29.
30.



31a) 16
b) 48
3243.02
33. 2.35
34.16

35. 93
36. 24^{th}
37. 38-16=22
    96-22+96=170

38a) May and June
   b) 400-150=250
   c) 600-250=350
      350/2=175
39. 7x7=49
    7x2=14
    14+7=21
    84/21=4 cm
40. (2.25+0.25)/2=2.50/2=1.25
    1.25x3=3.75
    3.75+0.25=4
41. Ducks---- 2 legs
    Cows----- 4 legs
   a) 20x2=40
      66-40=26
      4-2=2
      26/2=13
      Check: 20-13=7
   b) 13x4=52
      7x2=14
      52+14=66
      20.50 x 7= 143.50
42. 0525, Thursday
43. 1-5/8=3/8
    $3/8+2\frac{9}{8}=3$
    $3x(3/8)=9/8=1\frac{1}{8}$