NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2015

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

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

Total:	/ 100

Name: _____ (   )

Class: Primary 4 (   )

Date: <u>11 May 2015</u>

Any query on marks awarded should be raised by <u>21 May 2015.</u> 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. Which one of the following numbers when rounded off to the nearest hundred is 38 500?

   1) 38 448   2) 38 523

   3) 38 551   4) 38 627

2. Which one of the following numbers is **not** a factor of 72?

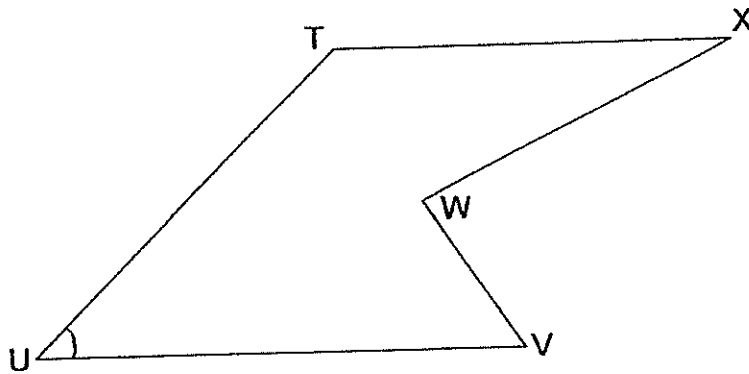   1) 7   2) 6

   3) 3   4) 4

3. Which one of the following pairs is the common factors of 24 and 42?

   (1) 1 and 6   (2) 2 and 5

   (3) 3 and 8   (4) 4 and 6

4. What is the quotient of 3256 ÷ 8?

   (1) 47   (2) 400

   (3) 407   (4) 470

2

5. Mrs Sumi has 68 roses. The greatest number of roses she can put in each vase is 6. What is the smallest number of vases needed to put in all the roses?

(1) 10

(2) 11

(3) 12

(4) 17

6. Express $\dfrac{62}{5}$ as a mixed number in its simplest form.

(1) $2\dfrac{2}{5}$

(2) $5\dfrac{2}{12}$

(3) $12\dfrac{2}{5}$

(4) $60\dfrac{2}{5}$

7. Find the sum of $\dfrac{1}{8}$ and $\dfrac{5}{8}$.

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

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

(3) $\dfrac{3}{8}$

(4) $\dfrac{5}{16}$

8.

In the figure above, which angle gives a measurement of about 45°?

(1)   ∠TXW

(2)   ∠UVW

(3)   ∠UTX

(4)   ∠VUT

9.   Amy starts her piano class at 6 o'clock in the evening as shown in the diagram below. She ends her lesson at 7 o'clock on the same evening. How many right angles will the minute hand make at the end of the lesson?
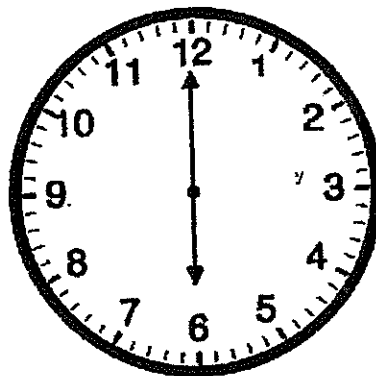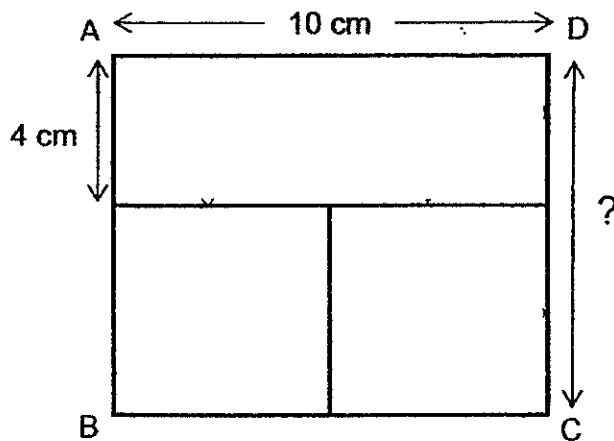

(1)   1

(2)   2

(3)   3

(4)   4

10. Which one of the following is a multiple of 63 ÷ 9?

1)   126

2)   207

3)   368

4)   639

11. Rectangle ABCD is made up of a rectangle and 2 identical squares as shown in the diagram below. Find the length of CD.

(1)   6 cm   (2)   8 cm

(3)   9 cm   (4)   10 cm

12. Ailing had $2\frac{1}{6}$ m of cloth. She used $1\frac{2}{3}$ m of it to sew a dress. How many metres of the cloth had she left?

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

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

13. The capacity of a mug is $\frac{2}{5}$ l. What is the total capacity of 70 such mugs?

(1) 7 l (2) 14 l

(3) 28 l (4) 42 l

14. Mrs Tan gave some chocolates to her class of 32 pupils. She gave 5 chocolates to each boy and 6 chocolates to each girl and did not have any chocolates left. There were thrice as many boys as girls in the class. How many chocolates were given out to the boys?

(1) 40   (2) 48

(3) 120   (4) 160

15. Study the number pattern below. What is the missing number in the box?

124 , 248 , 254 , ? , 514 , 1028 , 1034 , 2068 , 2074

(1) 257   (2) 260

(3) 502   (4) 508

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. What is the value of the digit 9 in the number 79 083?

Ans : _____

17. Write the following in numerals.

40 thousands 11 hundreds 17 ones

Ans : _____

18. List all the factors of 28.

Ans: _____

19. Estimate the value of 2944 × 12 by first rounding off each of the number to the nearest ten.

_____

·7·

20. There were 16 people at a party. There were 8 adults and 4 boys. The rest were girls. What fraction of the people at the party were girls? Leave your answer in its simplest form.

Ans : _____

21. Using the line BC given below, draw an angle such that $\angle$ABC is 135°. Mark and label the angle.

C

B
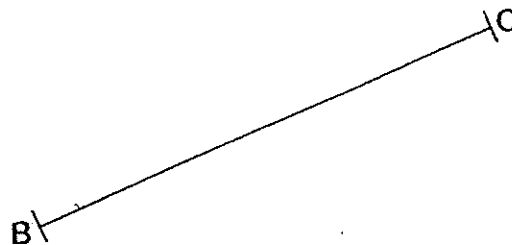
22. Pirah studied the population size of 4 countries, A, B, C and D. He found out that:

- Country A's population was twice that of country B.
- Country C's population was 1000 more than that of country A.
- Country D's population was half that of country B.

Arrange the countries in terms of their populations in ascending order.

Ans : Country _____, Country _____, Country _____, Country _____

23. There are 40 guests queueing to enter a party. Every 4ᵗʰ guest in the queue receives a balloon and every 6ᵗʰ guest in the queue receives a mask. How many guests receive both a balloon and a mask?

Ans : _____

24. What is the missing number in the box?

$$11\frac{5}{9} = \frac{\boxed{?}}{3} + 9\frac{2}{9}$$

Ans : _____

25. String A is $1\frac{3}{4}$ m long. String B is $\frac{3}{8}$ m longer than String A. What is the total length of String A and String B? Express your answer as a mixed number in its simplest form.

Ans : _____ m

26. There were some buttons in a box. $\frac{1}{3}$ of them were white, $\frac{1}{6}$ of them were red and the rest were blue. There were 48 more blue buttons than red buttons. How many red buttons were there in the box?

Ans : _____

27. The figure below is not drawn to scale. Name an angle in the figure that is bigger than 90° but smaller than 180°.
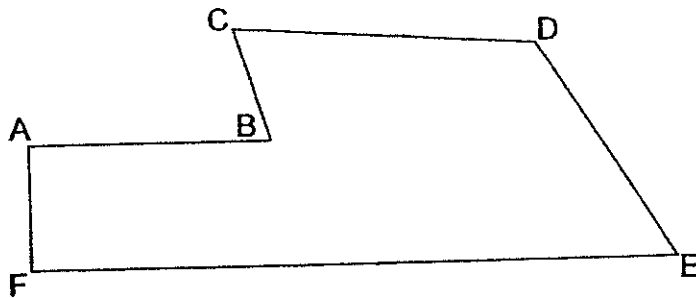
Ans : ∠ _____

28. Terry is $\frac{6}{5}$ times as tall as Teresa. Teresa is 145 cm tall. How tall is Terry?

Ans : _____ cm

10

29. In the figure below, draw a line RS such that RS is perpendicular to PQ and RS = 6 cm.

R

P

Q
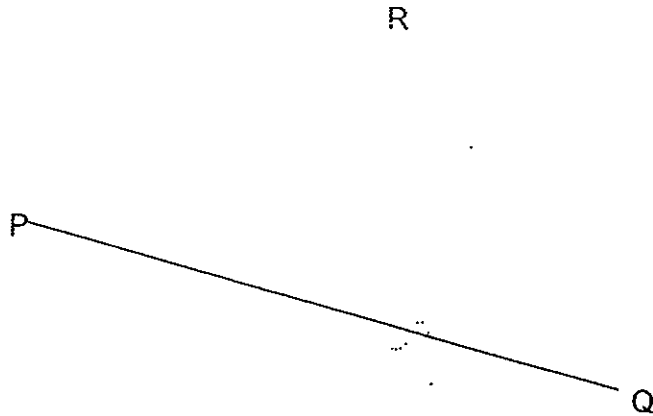
30. The figure below is made up of a square ABCD and a rectangle CEFG. ∠DCG is 75°. Find the sum of ∠BCG and ∠BAD.

Ans : _____ °
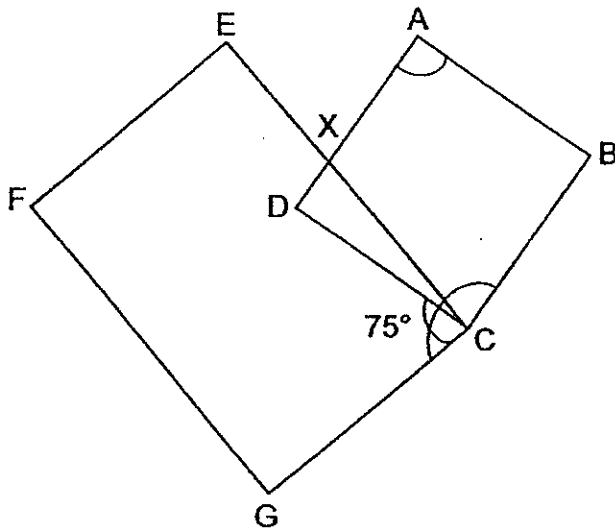
31. Sock Hoon had **about** $280. She spent $79. What was the smallest possible amount of money she had left?

Ans : $ _____

32. Keychains are sold only in boxes of 12. Each box costs $9. Liming has $2219. What is the greatest number of keychains that Liming can buy?

Ans : _____

33. The number of guppies was $\frac{2}{3}$ of the number of angelfish in a fish tank. There were 30 fishes altogether. How many guppies were there in the fish tank?

Ans : _____

34. Refer to the square grid below. Peiling was standing at one of the points, facing point B. After making a $\frac{3}{4}$-turn anticlockwise, she was facing point F. At which point was she standing?
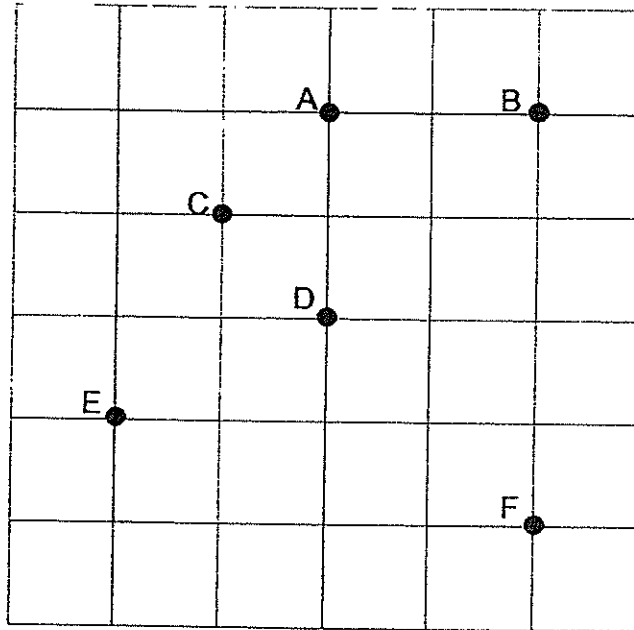
Ans : _____

35. Edith has more than 10 but less than 30 chocolates. If she puts them equally into bags of 7, she would be short of 3 chocolates. If she puts them equally into bags of 3, she would have 1 extra chocolate. How many chocolates does Edith have?

Ans : _____

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. Mrs Lim gave some of her money to her 2 daughters. Jane received $\frac{3}{8}$ of the money. Kim received $\frac{1}{4}$ of the money. Mrs Lim had $60 left in the end. How much more money did Jane receive than Kim?

Ans : _____ [3]

37. The figure below is not drawn to scale. WXYZ is a rectangle.

$\angle$d is 10° and $\angle$e is 30°. $\angle$f is $\frac{1}{2}$ of the sum of $\angle$d and $\angle$e.

Find $\angle$VXU.
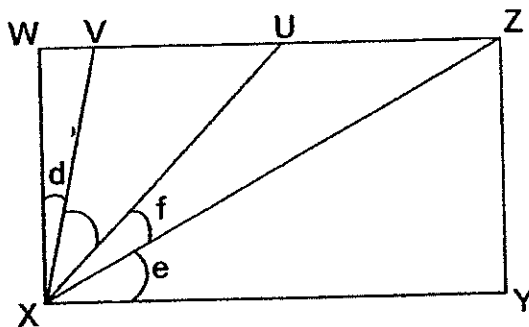
Ans: _____ [3]

38. A group of friends went for lunch together. After lunch, half of them went home. Among those who remained, 7 of them went shopping together while the rest went for a movie. For those who went for the movie, 4 of them went home after the movie and the remaining 5 of them decided to go for dinner. How many friends went for lunch together?

Ans: _____ . [4]

39. Mrs Hwee bought 2 air-fryers, 1 toaster and 1 electric kettle for $729 during the Great Singapore Sale. Each air-fryer cost $20 more than the toaster. Each electric kettle cost half as much as an air-fryer. How much did the toaster cost?

Ans: _____ [4]

40. Jack had $280 and Carl had $120 at first. Each of them bought an identical belt and an identical shirt from the same shop. The shirt cost 3 times as much as the belt. In the end, Jack had 3 times as much money as Carl. What was the cost of the belt?

Ans: _____ [4]

41. Mrs Loke made some tarts. She sold $\frac{1}{3}$ of them in the morning, $\frac{2}{9}$ of them in the afternoon and another 220 of them in the evening. There were 100 tarts left in the end. How many tarts did she make in all?

Ans: _____ [4]

42. Debbie spent $180 on a gown and $\frac{2}{3}$ as much on a bag. She bought a

pair of shoes that cost $\frac{4}{5}$ as much as the bag. How much less did she

spend on the pair of shoes than on the bag?

Ans: _____ [4]

43. Yusri had 8 more blue pens than green pens at first. His mother then gave him 14 blue pens and his classmates gave him 60 green pens for Christmas. Yusri realised that he now had twice as many green pens as blue pens.

(a) How many blue pens did Yusri have at first?

(b) How many pens did Yusri have in the end?

Ans: (a) _____ [3]

        (b) _____ [1]

END OF PAPER

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

Q16. 9000
Q17. 41117
Q18. 1,2,4,7,14,28
Q19. 29400
Q20. ¼
Q21. SEE PICTURE
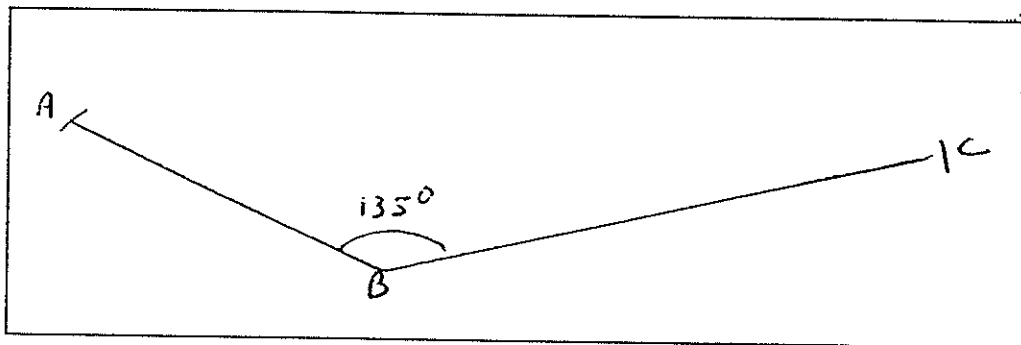
Q22. Country D, Country B, Country A, Country C
Q23. 3
Q24. 7 → $11\frac{5}{9} - 9\frac{2}{9} = 2\frac{3}{9} = 2\frac{1}{3} = 7$
Q25. 3⅞m → String B → $1¾ + ⅜ = 1\frac{6}{8} + ⅜ = 1\frac{9}{8} = 3\frac{7}{8}$, total → $1\frac{6}{8} + 2⅛ = 3⅞$
Q26. 24 → 2U → 48, 1U → 48÷2=24
Q27. ∠CDE
Q28. 174cm → $145 \times \frac{6}{5} = \frac{145 \times 6}{5} = \frac{870}{5}$ 174cm

Q29. SEE PICTURE
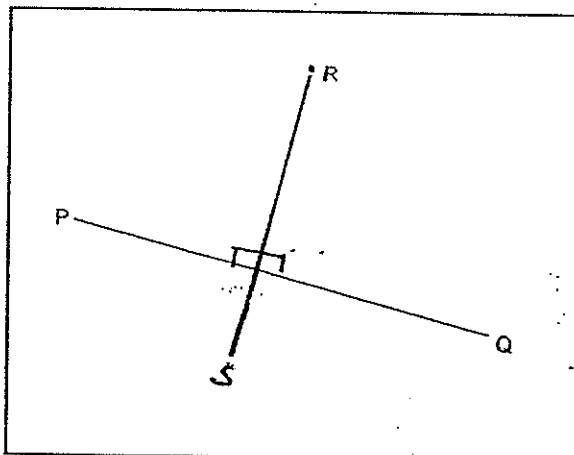
Q30. 255°
∠ BAD →90°, 90°+75°=165°,165° +90° =255°
Q31. $196. →$275 −79 = $196
Q32. 2952→ $2219 ÷ $9 = 246r5, 246x 12 = 2952
Q33. 12. → 5U → 30, 1u→ 30÷5=6, 2U →6 X 2= 12
Q34. D
Q35. 25.
Q36 $20 → 3u→ $60, 1U → $60÷3=$20, KIM→$20X2=$40, JANE→$20X4=$60,
    Difference → $60 − $40 = $20
Q37.30°→ 30° +10° =40°, 40°÷ 2 = 20°, 40° +20°=60°, 90°−60°=30°
Q38. 32→ 1U→7+4+5=16, 2U→ 16 X 2 = 32
Q39. $194 → $729 − $20 − $20 − $10 = $679, 7U→$679,1U = 679÷7=$97, 2U→97 X 2= 194
Q40.$10→$280-$120=$160, 1U→160÷2=80, 120−80 =$40, $40÷4=$10
Q41. 720 tarts. → 4U →320, 1U →320÷ 4= 80, 9U → 80 x9 = 720
Q42. $24.
 BAG→ $180 X ⅔ = $\frac{2 \times \$180}{3}$ = $\frac{\$360}{3}$ = $120

SHOES → $120 x ⅘= $\frac{\$120 \times 4}{5}$ = $96

Difference → $120 − $96 = $24

Q43a. 24   Q43b. 114
1U→60−8=52 −14 = 38 , 38 −14 = 24, 38 x 3 = 114

THE END