NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2015

PRIMARY 3

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	/ 40
Section B	/ 40
Section C	/ 20

Total:	/ 100

Name: _____ (   )

Class: Primary 3 (   )

Date: _____

Any query on marks awarded should be raised by <u>6 November 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.

Section A

Questions 1 to 20 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: 40 marks)

1. What is the value of 23 hundreds and 9 ones?

    (1) 239   (2) 2039
    (3) 2309   (4) 2390

2. Which number is less than 7831?

    (1) 8371   (2) 7900
    (3) 7911   (4) 7799

3. Find the sum of 2791 and 3107.

    (1) 316   (2) 5898
    (3) 5988   (4) 6078

4. What is the value of 384 ÷ 8?

    (1) 38   (2) 43
    (3) 46   (4) 48

5. How much is $4.50 more than $3.75?

    (1) $0.25   (2) $0.75
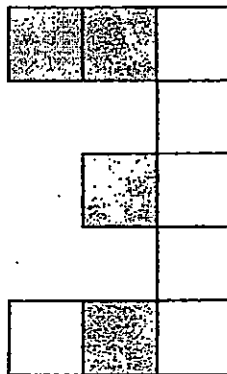   (3) $7.25   (4) $8.25

1

6. Weiming measured a jogging path outside his house and wrote down
1 km and 5 m.
Which one of the following shows the length of the jogging path?

(1) 105 m (2) 150 m
(3) 1005 m (4) 1500 m

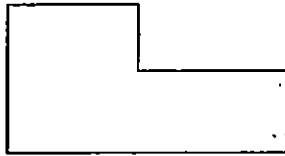7. Which one of the following fractions is equivalent to $\frac{2}{12}$?

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

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

8. The figure below is made up of 10 identical squares.
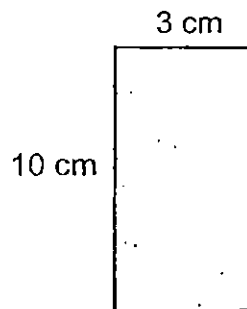What fraction of the figure is shaded?

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

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

9. How many right angles are there in the figure below?

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

10. Find the perimeter of the rectangle.

3 cm

10 cm

(1) 13 cm   (2) 20 cm
(3) 26 cm   (4) 30 cm

11. What is the missing number in the box?

☐ − 2491 = 5000

(1) 2509   (2) 3491
(3) 7491   (4) 7941

12. A farmer had 4035 chickens in his farm.
A flood killed 428 of his chickens.
How many chickens did the farmer have in the end?

(1) 3507   (2) 3607
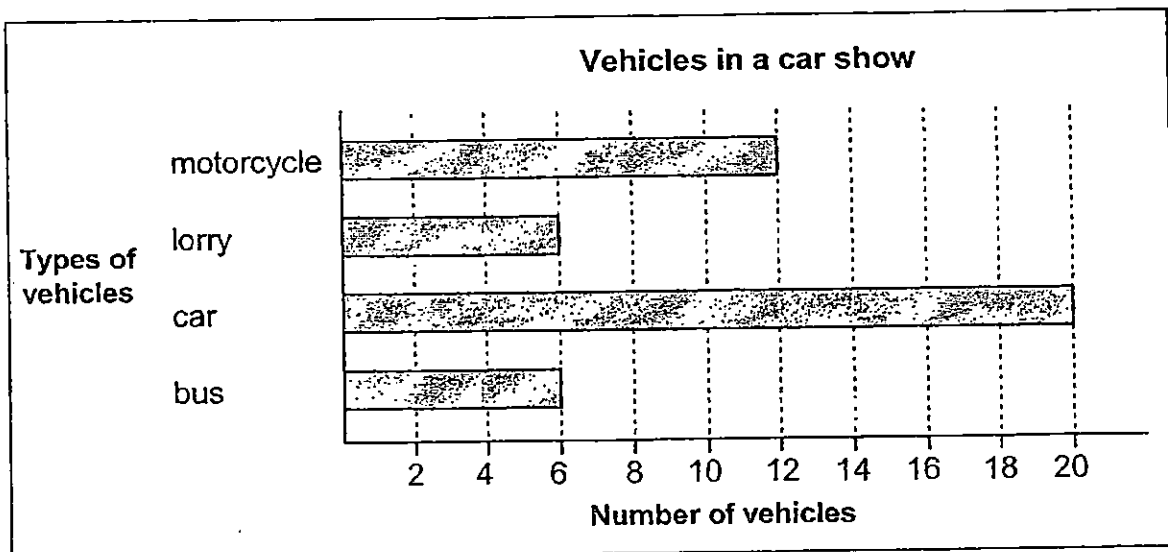(3) 4413   (4) 4463

13. There are 136 lemons packed in each carton.
How many lemons are there in 7 such cartons?

(1) 752   (2) 912
(3) 952   (4) 959

14. Letchmi needs 7 beads to make a necklace.
What is the most number of necklaces she can make with 395 beads?

(1) 56   (2) 57
(3) 2165   (4) 2765

15. The picture graph below shows the number of vehicles in a car show.

Vehicles in a car show

Types of vehicles — motorcycle, lorry, car, bus

Number of vehicles

How many more cars than motorcycles are there?

(1) 10   (2) 8
(3) 6   (4) 4

4

16. How many more tourists visited the zoo in June than in May?

Visitors to the Zoo			
Month	May	June	July
Number of tourists	3908	5005	4289

(1) 381   (2) 716
(3) 1097   (4) 8913

17. Jia Qi bought some packets of ribbons to decorate her house.
There were 8 ribbons in each packet.
After she used 6 packets, she had 10 packets left.
How many ribbons did she buy at first?

(1) 32   (2) 80
(3) 128   (4) 140

18. 258 pupils boarded 6 buses.
There was an equal number of pupils in each bus.
There were 19 boys in each bus and the rest were girls.
How many girls were there in each bus?

(1) 24   (2) 36
(3) 43   (4) 62

19. Container A is filled with 1500 *ml* of water.
    Container B is filled with 2380 *ml* of water.
    The total amount of water in Container A and Container B is half the
    amount of water in Container C.
    How much water is there in Container C?

    (1)   880 *ml*   (2)   1 *l* 760 *ml*
    (3)   3 *l* 880 *ml*   (4)   7 *l* 760 *ml*

20. The number of lollipops at a funfair booth is between 50 and 80.
    If they are packed into bags of 9 each, there will be 7 lollipops left over.
    If they are packed into bags of 7 each, there will be 2 lollipops left over.
    How many lollipops are there at the booth?

    (1)   63   (2)   72
    (3)   79   (4)   88

Questions 21 to 40 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)

21. Write the following in numerals.

    a)   Nine thousand and fifty-seven

    Answer : _____

    b)   5 thousands and 40 ones

    Answer : _____ _

22. Arrange the following numbers in order, starting with the greatest number.

    8308, 8830, 8803

    Answer: _____, _____, _____

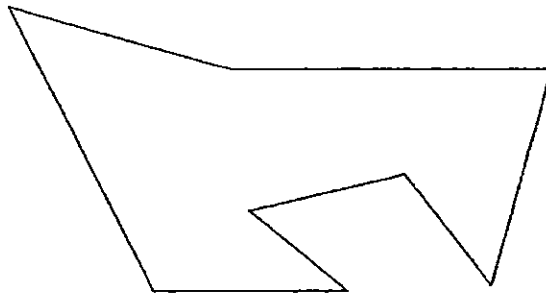23. Find the product of 212 and 6.

    Answer : _____

24. J and K are whole numbers.
Find J and K if the sets of fractions below are equivalent fractions.

$$\frac{1}{4} \quad , \quad \frac{J}{8} \quad , \quad \frac{3}{K}$$

Answer : J _____

K _____

25. How many angles in the figure below are smaller than a right angle?

Answer : _____

26. Peter bought a water bottle which cost $9.50.
He also bought a backpack which cost $24.75 more than the water bottle.
How much did Peter spend in total on the 2 items?

Answer : $_____

8

27. John ran 1040 m.
Kelly ran 2102 m.
How much longer did Kelly run than John?
Express your answer in kilometres and metres.

Answer : _____km _____ m

28. Mrs Joaquim bought 3020 *ml* of syrup.
She accidentally spilled 70 *ml* of syrup.
She then used 950 *ml* of syrup to make a drink.
How many litres of syrup had she left?

Answer : _____ *l*

29. Lewis took a train from Station A at 7.15 a.m. to Station B and then to Station C.
He arrived at Station C at 11.35 a.m. on the same day.
Lewis took 1 h 40 min to travel from Station A to Station B.
How long was the journey from Station B to Station C?
Express your answer in hours and minutes.

9

30. Arrange the following fractions in ascending order.

$$\frac{2}{3}, \frac{3}{4}, \frac{1}{6}$$

Answer: _____ , _____ , _____

31. Devi read $\frac{2}{5}$ of a book.
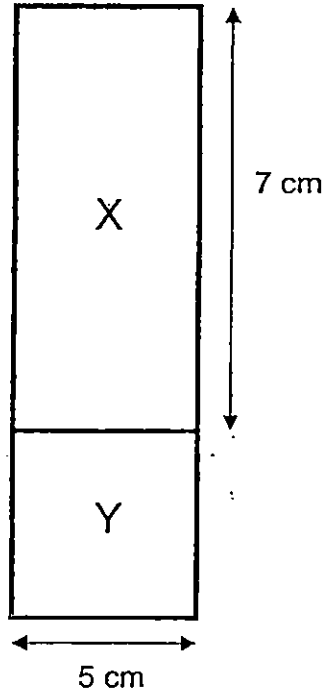
Elisa read $\frac{1}{2}$ of the same book.

What fraction of the book did Elisa read more than Devi?

Answer : _____

32. The tickets for a charity show were $5 for each adult and $3 for each child.
19 tickets were sold.
The total amount for the sale of tickets was $75.
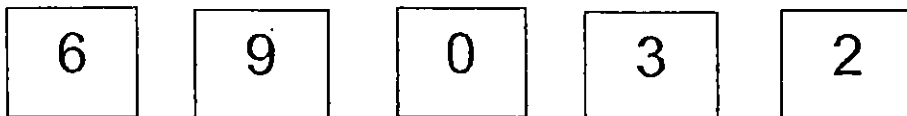How many adult tickets were sold?

Answer : _____

33. The figure below is made up of a rectangle X and a square Y.
The length of Square Y is 5 cm.
What is the difference between the area of Rectangle X and
Square Y?

X

7 cm

Y

5 cm

Answer : _____ cm^2

34. Yisheng picked up the following five number cards.
What is the smallest 4-digit odd number that Yisheng can form using
the cards?

| 6 | 9 | 0 | 3 | 2 |

Answer : _____

35. The library had a total of 3154 English and Chinese story books.
There were 1849 English story books.
How many more English story books than Chinese story books were there?
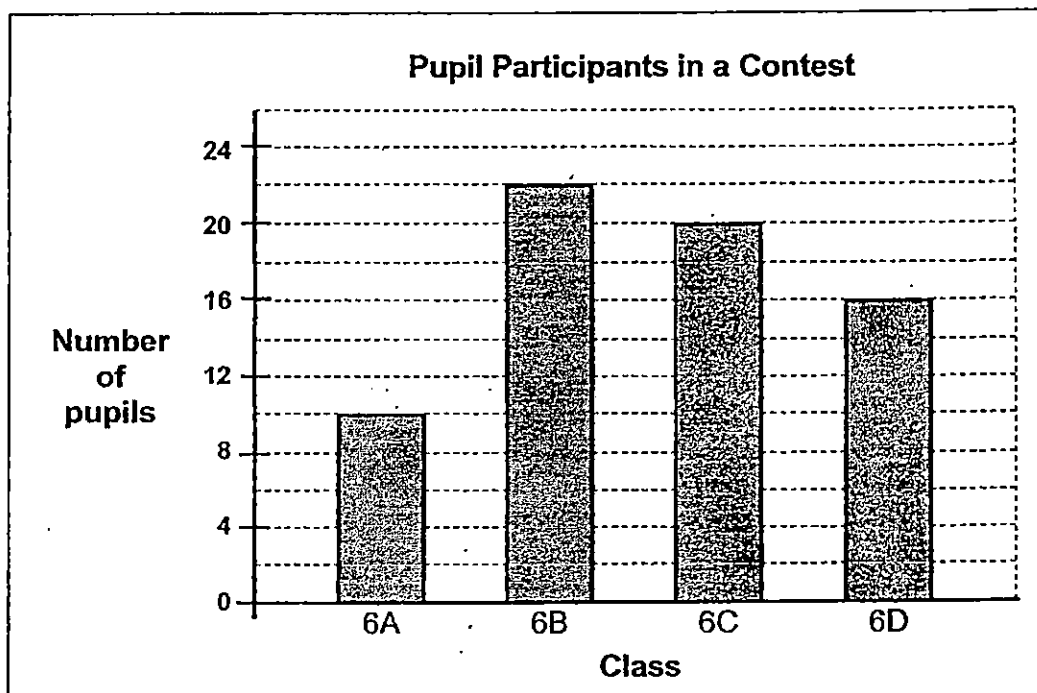
Answer : _____

36. There are 483 fish in a pond.
There are twice as many goldfish as guppies.
The number of mollies is 2 times the number of goldfish in the pond.
How many more mollies than guppies are there?

Answer : _____

37. The total mass of 2 suitcases and 1 bag is 4000 g.
The mass of each suitcase is 200 g heavier than each bag.
What is the mass of each bag?

Answer : _____ g

38. The bar graph below shows the number of pupils who participated in a contest.

Pupil Participants in a Contest

Class	Number of pupils
6A	10
6B	22
6C	20
6D	16

Equal number of boys and girls participated in the contest.
How many boys participated in the contest?

Answer : _____

39. Meixin had some stickers.
She gave 59 stickers to Helen.
She then gave Lily, Xueni and Wendy 6 stickers each.
In the end, she had 14 stickers left.
How many stickers did Meixin have at first?

Answer : _____

40. The figures below are made up of coins of equal size and sticks of equal length. Look at the following patterns and answer the following question.

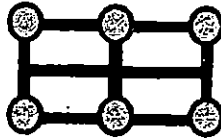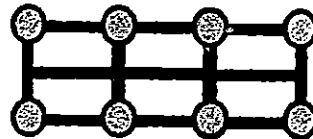| Figure 1	Figure 2	Figure 3
4 coins	6 coins	8 coins

How many coins are needed to form Figure 8?

Answer : _____

Questions 41 to 45 carry 4 marks each. Do these word problems carefully.
Show your working clearly in the space provided below each question.

(Total: 20 marks)

41.   Ted, Peter and Junjie have some picture cards.
        Junjie has 48 more cards than Ted but 129 fewer cards than Peter.
        Ted has 325 cards.

    a) How many picture cards does Peter have?

        Peter has _____ picture cards.   [2m]
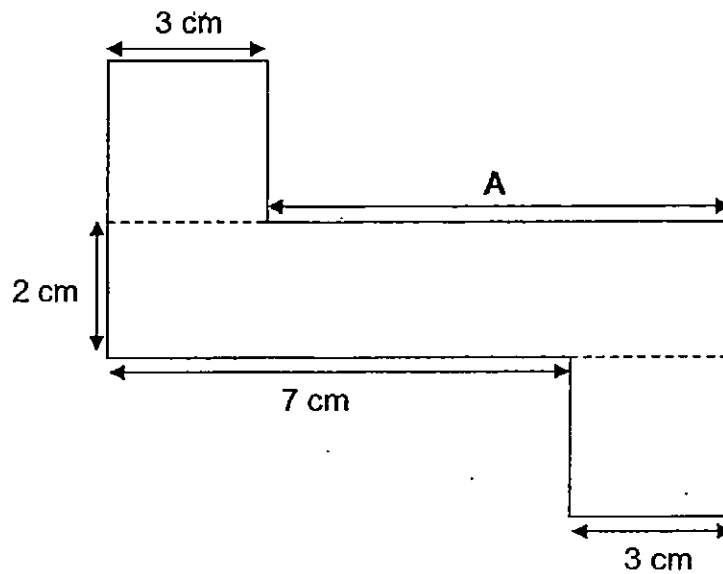

    b) How many more picture cards does Peter have than Ted?

        Peter has _____ more picture cards than Ted.   [2m]

42. The figure below is made up of two identical squares and a rectangle. The figure is not drawn to scale.

a) Find the length of A.

The length of A is _____   [1m]

b) Find the perimeter of the figure.

The perimeter of the figure is _____   [3m]

43. At a sale, Jemimah bought 3 hats and 2 belts for $71.
2 belts and 2 hats cost $58.

a) How much did 3 hats cost?

3 hats cost _____ .   [3m]

b) How much did 2 belts cost?

2 belts cost _____ .   [1m]

44. Abby has 5 times as many stickers as Benji.
How many stickers must Abby give to Benji so that they each have 108 stickers?

Abby must give Benji _____ stickers.

45. Clock A chimes every 30 minutes while Clock B chimes every 40 minutes.
Both clocks start their chimes together at 1.45 p.m.
What time will both clocks chime together again after 5 p.m. on the same day?

They will chime together again at _____

EXAM PAPER 2015
LEVEL   : PRIMARY 3
SCHOOL   : NANYANG PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM   : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	2	4	4	3	3	3	1	3
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q 20
3	2	3	1	2	3	3	1	4	3

Q21a. 9057   Q21b. 5040   Q22. 8830 , 8803, 8308

Q23. 1272 212 x 6 = 1272   Q24. J: 2 K : 12   Q25. 4

Q26. $43.75 – 9.50+24.75=34.25, 34.25 +9.50=43.75

Q27. 1km ➔62m➔ 2102-1040=1062, 1062=1im 62m

Q28.2 ➔3020-70=2950, 2950-950=2000, 2000ml = 2litre

Q29. 2h 40min   Q30. ⅙ , ⅔ , ¾   Q31. $\frac{1}{10}$

Q32. 9
Assume all are children tickets.
Total ➔3x19=57
Extra➔75-57=18
Difference ➔5-3=2, Opposite 18÷2=9

Q33. 10cm²
Area of Rect X➔ 7x5=35, Area of square y ➔5 x5 = 25, Difference 35-25=10

Q34. 2039   Q35. 544 ➔3154-1849=1305, 1849-1305=544

Q36. 207➔ 483÷7=69, 69x2=138, 138x2=276, 276-69=207

Q37. 1200g➔ 4000-400=3600, 3600÷3=1200

Q38. 34
6A➔ 10÷2=5, 6B ➔22÷2=11, 6C➔ 20÷2=10, 6D ➔16÷2=8, 10+11=21, 21+8+5=34

Q39. 91 ➔14+18=32, 32+59=91

Q40. 18
F4 ➔8+2=10, F5 ➔10+2=12, F6 ➔12+2=14, F7 ➔14+2=16, F8 ➔16+2=18

Q41a. 502 ➔ 325 +48=373, 373+129=502

Q41b. 177➔ 502-325=177

Q42a. 7cm

Q42b. 36cm
7+3+3+2=15, 15+3+3+3=24, 24+7+2+3=36

Q43a. 439➔ 71-58=13, 13 x 3 = 39

Q43b. $32➔ 71-39=32

Q44. 72 stickers ➔108÷3=36, 36=36=72

THE END

Q45. Both clocks will chime together again at 5.15pm on the same day.