CATHOLIC HIGH SCHOOL
END-OF-YEAR EXAMINATION 2013
MATHEMATICS
PRIMARY 3

Name : _____( )

Class: Primary 3 _____

Date: 22 OCT 2013

Duration: 1 h 45 min

Section A	40
Section B	40
Section C	20
Total Marks	100

Parent's Signature: _____

There are 3 sections consisting of **20 pages** in this paper.

Section A: Multiple-Choice Questions (MCQ) 20 x 2 marks

Section B: Open-Ended Questions 20 x 2 marks

Section C: Story Sums 5 x 4 marks

SECTION A: Multiple-Choice Questions (20 x 2 marks)

For each of the question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. Seven thousand, seven hundred and seven is _____.

   (1) 7077
   (2) 7707
   (3) 7770
   (4) 7777

2. Find the difference between 6523 and 2419.

   (1) 4104
   (2) 4116
   (3) 8932
   (4) 8942

3. Find the sum of $\frac{2}{3}$ and $\frac{1}{9}$.

   (1) $\frac{1}{6}$
   (2) $\frac{3}{12}$
   (3) $\frac{5}{9}$
   (4) $\frac{7}{9}$

4. 25 hundreds 70 tens is the same as _____.

(1) 320
(2) 950
(3) 2570
(4) 3200

5. What is 5 kg 40 g in grams?

(1) 504 g
(2) 540 g
(3) 5040 g
(4) 5400 g

6. Mum cut a ribbon into 12 equal pieces. She gave 1 piece to Amanda, 2 pieces to Sarah and 4 pieces to Doris. What fraction of the original ribbon was left?

(1) $\frac{1}{12}$
(2) $\frac{3}{12}$
(3) $\frac{5}{12}$
(4) $\frac{7}{12}$

7. _____ × 9 = 54 + 9 + 9 + 9.
What is the missing number?

(1) 51
(2) 27
(3) 9
(4) 6

8. $\frac{1}{A} + \frac{1}{B} = \frac{1}{4}$
then A = _____ and B = _____.

(1) A = 1 and B = 3
(2) A = 2 and B = 2
(3) A = 6 and B = 2
(4) A = 8 and B = 8

9. Cindy had thrice as much money as Audrey. Cindy had $264, how much did Audrey have?

(1) $66
(2) $88
(3) $132
(4) $792

10. Wendy's watch is 20 minutes slow. It shows 11.50 p.m. What is the actual time?

(1) 11.30 a.m.
(2) 11.30 p.m.
(3) 12.10 a.m.
(4) 12.10 p.m.

11. The table below shows the time in 2 different cities.

	Dubai	Singapore
Date	22nd Oct	22nd Oct
Time	10 a.m.	2 p.m.

When it is 4.30 p.m. in Singapore, what is the time in Dubai?

(1) 8.30 a.m.
(2) 12.30 a.m.
(3) 8.30 p.m.
(4) 12.30 p.m.

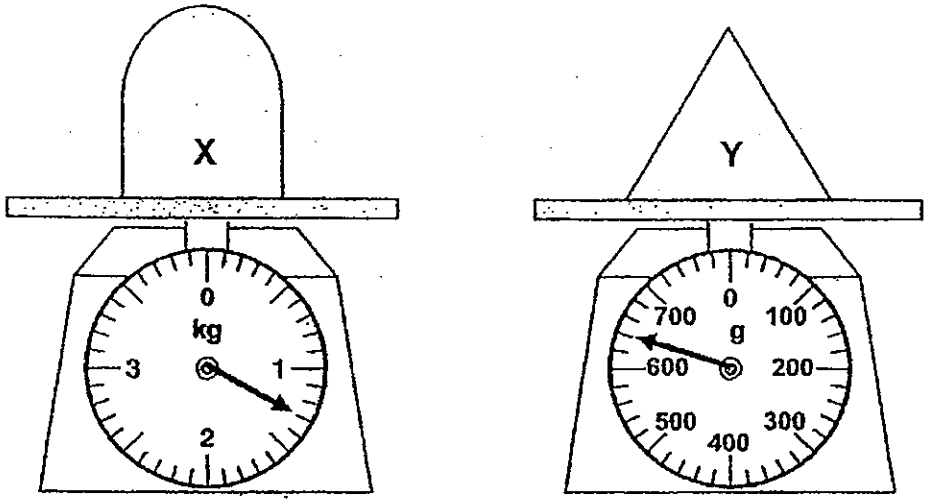
12. Gerald distributed 104 marbles equally to 7 friends with some marbles leftover. How many marbles had he left?

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

13. Jiahui was packing some cookies into 4 boxes. She wanted to pack 75 cookies into each of the box. However, she was short of 12 cookies. How many cookies did Jiahui have?

(1) 288
(2) 300
(3) 312
(4) 348

14. Object X and Object Y are placed on 2 different scales.



What is the difference in the mass between Object X and Object Y?

(1) 490 g
(2) 510 g
(3) 660 g
(4) 680 g

15. A rope was cut into 6 pieces. Each piece was 12 cm long. 1 piece of the rope was given away. What was the total length of rope left?

(1) 24 cm
(2) 48 cm
(3) 60 cm
(4) 72 cm

16. 4 cups of orange juice can fill a jar. 2 jars of orange juice can fill Container A. What is the capacity of a cup if the capacity of Container A is 400 ml?

(1) 25 ml
(2) 50 ml
(3) 100 ml
(4) 200 ml

17. Joanne bought $\frac{7}{8}$ m of wire. She used $\frac{1}{4}$ m of it and gave some to her brother. Joanne was left with $\frac{1}{2}$ m of wire. Find the length of the wire Joanne gave to her brother.

(1) $\frac{1}{8}$ m

(2) $\frac{3}{8}$ m

(3) $\frac{5}{8}$ m

(4) $\frac{6}{8}$ m

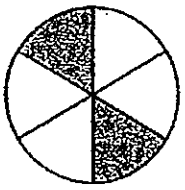
18. Tank A and Tank B contain 306 ml and 150 ml of water respectively. How much water must be transferred from Tank A to Tank B so that both tanks have the same amount of water?

(1) 52 ml
(2) 78 ml
(3) 128 ml
(4) 156 ml

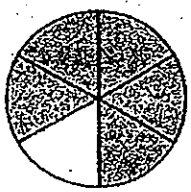
19. Matthew and Joseph had the same amount of money. After Matthew gave $20 to Joseph, Joseph now has $80. How much does Matthew have now?

(1) $10
(2) $20
(3) $40
(4) $60

20. Glen, Keith and Timmy each had a circle of the same size that was divided into equal parts. Glen and Keith shaded parts of their circles as shown below.



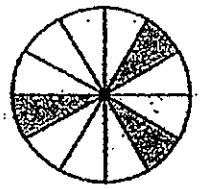
Glen's circle



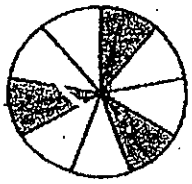
Keith's circle

Timmy shaded a greater area than Glen but a smaller area than Keith did, which of the following could be Timmy's circle?

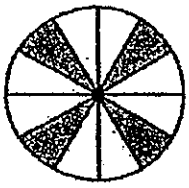
(1)



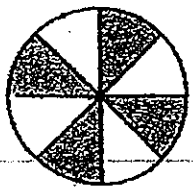
(2)



(3)



(4)



SECTION B: Open-ended Questions (20 x 2 marks)
Show your working clearly in the space provided and write the correct answers in the answer boxes provided.

21. What is the smallest 4-digit odd number that can be formed with the digits 0, 1, 2 and 6?

Ans: [ ]

22. Arrange the numbers in order, beginning with the smallest.

4973 , 3794 , 3974 , 4793

Ans: [, , ,]
smallest greatest

23. Mrs Ng baked 386 muffins. Mrs Wong baked 9 fewer muffins than Mrs Ng. How many muffins did they bake altogether?

Ans: [ ]

24. $35.60 = _____ five-dollar notes + 28 twenty-cent coins.

Ans: [ ]

25. Joyce had $500. After spending $38 on her lunch, she spent the rest of her money on 3 identical pairs of shoes. How much did she spend on each pair of shoes?

Ans: $

26. Arrange the fractions in order, beginning with the greatest.

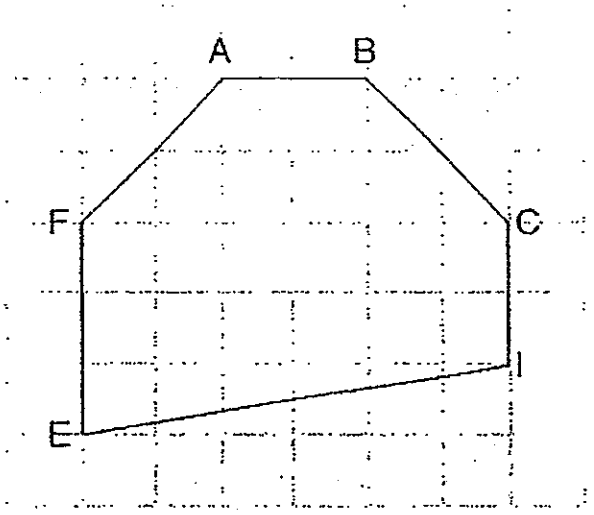
$$\frac{1}{4}, \frac{1}{6}, \frac{2}{3}$$

Ans: _____
greatest smallest

27. Find the difference between $\frac{1}{4}$ and $\frac{11}{12}$.
Write your answer in its simplest form.

Ans:

28. Look at the figure below. Name a pair of parallel lines.



Ans: and

29. Jeff ate $\frac{3}{8}$ of a pie and his brother ate $\frac{1}{4}$ of it. What fraction of the pie was left?

Ans:

30. Steven travelled 8 h 27 min from Paris to Milan. He then travelled 2 h 25 min from Milan to Venice. What was the total travelling time from Paris to Venice?

Ans: h min

31. Find the missing numerator.

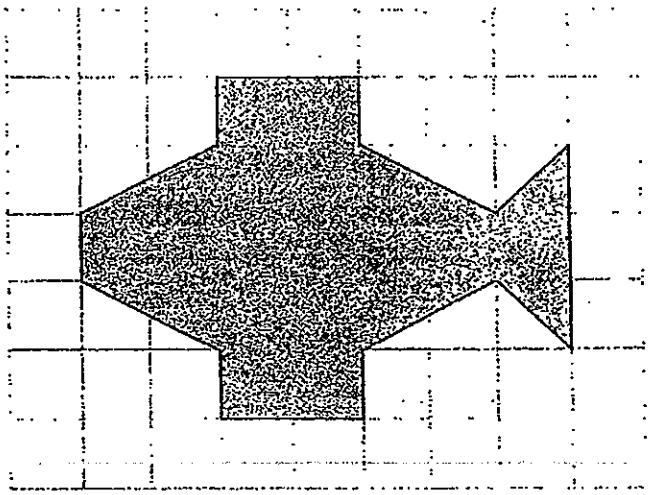
$$\frac{6}{8} = \frac{\square}{12}$$

Ans: _____

32. Adeline and Michelle had an equal number of stickers, How many stickers must Adeline give Michelle so that Michelle would have 76 stickers more than Adeline?

Ans: _____

33. The following shows a shaded figure on a square grid. How many angles inside the shaded figure are smaller than a right angle?



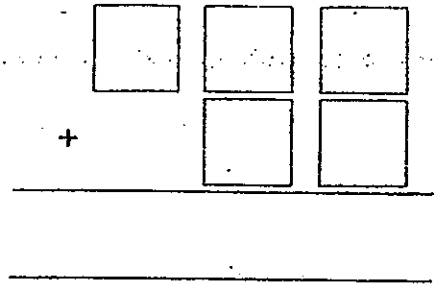
Ans: _____

34. Mary cuts a bar of chocolate into 12 equal pieces. How many pieces should she take if she wants $\frac{1}{4}$ of the chocolate bar?

Ans: _____

35. Find the greatest sum by using the following digits. Use each digit only once.

2, 4, 5, 6, 8



Ans: _____

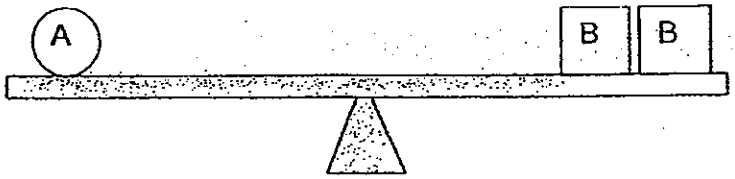
36. ☀ × ☀ = 25

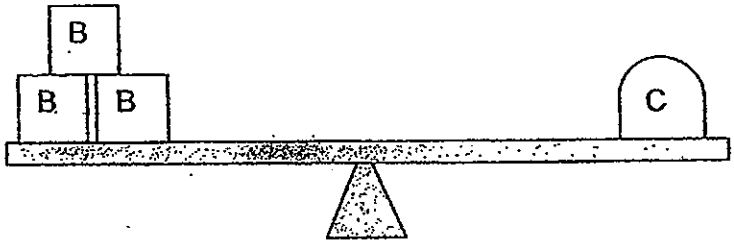
250 ÷ ☀ = ☾

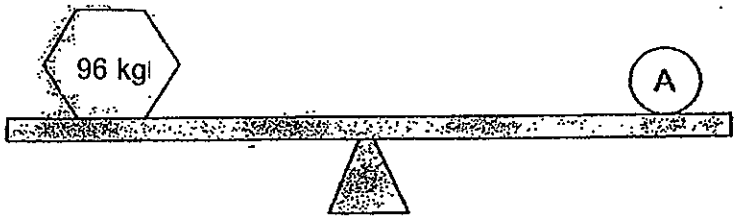
What does ☾ stand for?

Ans: _____

37. What is the mass of C ?

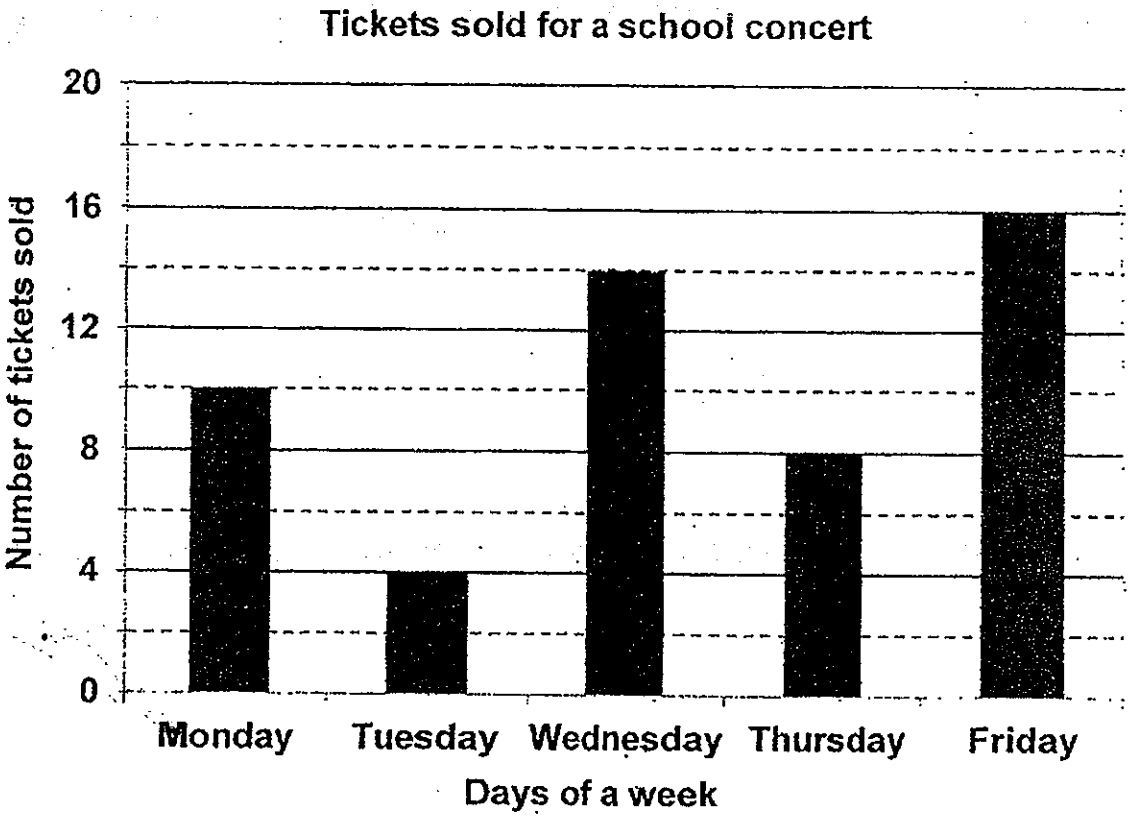






Ans: _____ kg

The bar graph below shows the number of tickets sold for a school concert from Monday to Friday.
Answer Questions 38 and 39.



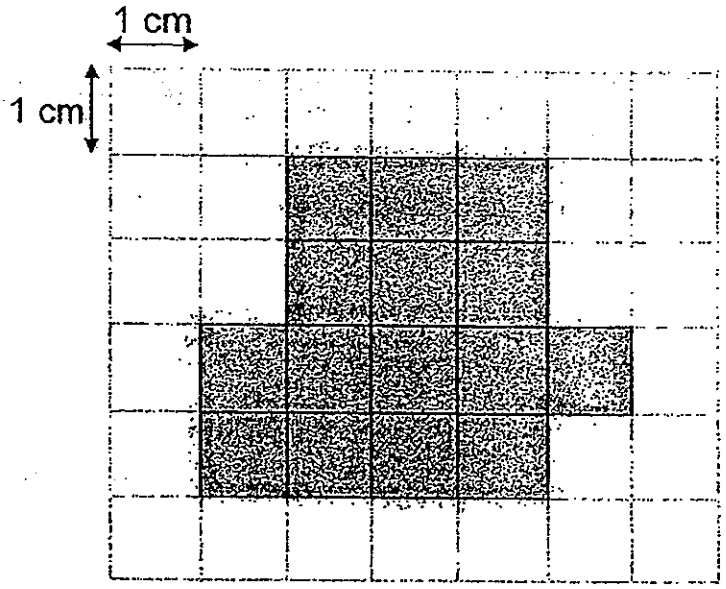
38. How many more tickets must be sold on Monday so that the number of tickets sold on both Monday and Friday will be the same?

Ans: ____

39. How many tickets were sold from Wednesday to Friday altogether?

Ans: ____

40. Find the perimeter of the shaded figure.



Ans: _____ cm

SECTION C: Story Sums (5 x 4 marks)

Solve the following story sums. All workings must be shown clearly. Draw models if necessary.

41. Raja and Hui Hui shared some sweets equally. After Raja gave 28 sweets away and Hui Hui bought 42 sweets, both have 240 sweets altogether. How many sweets did Raja have at first?

Ans:_____[4m]

42. Edward has $250. He has twice as many $2 notes as $1 coins. What is the total value of $2 notes that he has?

Ans: _____ [4m]

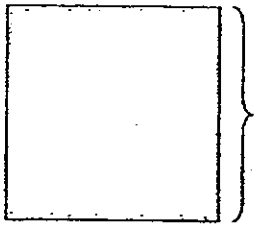
43. Container X is 18 kg heavier than Container Y and 15 kg lighter than Container Z. What is the total mass of Container Y and Container Z if Container X has a mass of 50 kg?

Ans:_____[4m]

44. Bernice and Dayna had an equal number of coins. After Bernice received twice the number of coins as what she had at first and Dayna gave 36 coins away, Bernice has 550 coins more than Dayna. How many coins does Dayna have now?

Ans: _____ [4m]

45. Caroline bent a piece of wire into a square as shown below.



She bent the same piece of wire into a rectangle that has a breadth of 4 cm. What is the area of the rectangle?

Ans: _____ [4m]

END OF THE PAPER

ANSWER SHEET

EXAM PAPER 2013
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : PRIMARY 3 MATHEMATICS

TERM : SA2

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

Q18	Q19	Q20
2	3	4

Section B
Q21) 2061
Q22) 3794, 3974, 4793, 4973
Q23) 763
Q24) 6
Q25) $154
Q26) 2/3, 1/4, 1/6
Q27) 2/3
Q28) FE and CD
Q29) 3/8
Q30) 10h 52min
Q31) 9
Q32) 38
Q33) 2
Q34) 3
Q35) 916
Q36) 50
Q37) 144kg
Q38)6

Q39) 38
Q40) 18cm

Section C
Q41) 2u → 240 – 42 - 28 = 170
1u → 170 ÷ 2 = 85
Raja → 85 + 28 = 113

Q42) $2 + $2 + $1 = $5
$250 ÷ $5 = 50
$1 x 50 = $50
$250 - $50 =$200

Q43) 50 – 18 = 32kg
50 + 15 = 65kg
32 + 65 = 97kg

Q44) 2u → 550 – 36 – 36 – 36 = 442
1u → 442 ÷ 2 = 221

Q45) Square → 9 x 4 = 36cm
4 + 4 = 8cm
36 – 8 = 28cm
28 ÷ 2 = 14cm
14 x 4 = 56cm^2