CATHOLIC HIGH SCHOOL
MID-YEAR EXAMINATION 2014
MATHEMATICS
PRIMARY 4

Name :_____( )

Class: Primary 4 _____

Date: 20 May 2014

Duration: 1 h 45 min

Parent's Signature: _____

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

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

For section A, shade your answers in the Optical Answer Sheet (OAS) provided.

This booklet consists of 19 printed pages.

Section A: Multiple-Choice Questions (40 marks)

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 (OAS).
SHADE the oval completely. All diagrams are not drawn to scale.

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1. In the number, 15 376, which digit is in the thousands place?

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

---

2. In which of the following are the numbers arranged from the greatest to the smallest?

	(greatest)				(smallest)
(1)	8361	,	8631	,	8613
(2)	8631	,	8613	,	8361
(3)	8613	,	8361	,	8631
(4)	8631	,	6831	,	8613

   ( )

---

3. Which one of the following numbers when rounded off to the nearest hundred becomes 29 000?

   (1) 28 948
   (2) 29 030
   (3) 29 058
   (4) 29 400 ( )

---

4. What is the missing number in the box below?

$$\frac{27}{12} = 2\frac{\square}{4}$$

   (1) 1
   (2) 7
   (3) 3
   (4) 8 ( )

5. Find the sum of $\frac{3}{4}$ and $\frac{1}{12}$.

(1) $\frac{4}{12}$

(2) $\frac{4}{16}$

(3) $\frac{5}{6}$

(4) $\frac{8}{12}$ ( )

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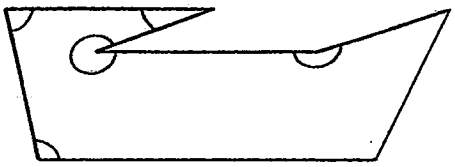
6. In the figure below, how many of the marked angles are less than 90°?



(1) 5

(2) 7

(3) 3

(4) 4 ( )

---

7. Which one of the following numbers is a factor of both 28 and 63?

(1) 7

(2) 2

(3) 9

(4) 4 ( )

---

8. Find the value of $\frac{7}{9}-\frac{2}{3}$

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

(2) $\frac{6}{9}$

(3) $\frac{1}{9}$

(4) $\frac{5}{9}$ ( )

9. In the number pattern below, what is the missing number in the box?
614, ☐ , 412, 311

(1) 101

(2) 202

(3) 513

(4) 715 ( )

---

10. Find the remainder of 687 ÷ 9.

(1) 12

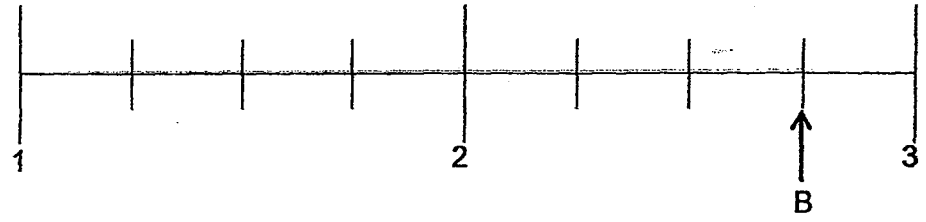
(2) 13

(3) 3

(4) 76 ( )

---

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



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

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

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

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

12. Michelle baked 80 cookies on Monday and gave away 26 of them. On Tuesday, she baked 34 cookies. How many cookies did she have in the end?

(1) 46

(2) 54

(3) 88

(4) 114 ( )

---

13. Mr. Jacobs spent $420 on a shopping trip. He spent $105 more than Mr. Thomson. How much did they spend altogether?

(1) $315

(2) $525

(3) $735

(4) $945 ( )

---

14. Carl has 5 times as many stickers as John. Carl has 20 stickers more than John. How many stickers do they have altogether?

(1) 20

(2) 25

(3) 30

(4) 4 ( )

---

15. Find the product of $\frac{4}{3} \times 4$.

(1) $\frac{4}{12}$

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

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

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

16. Thomas had 24 stickers. He gave $\frac{1}{4}$ of his stickers to his friend. How many stickers had he left?

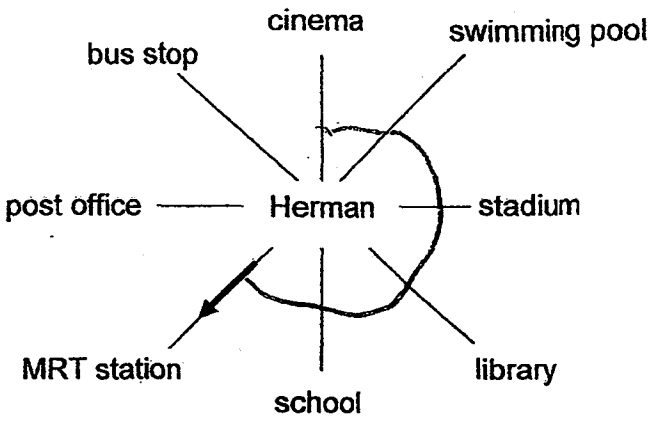
(1) 6
(2) 12
(3) 18
(4) 20 ( )

---

17. $\frac{3}{4}$ of a complete turn is _____°

(1) 45°
(2) 90°
(3) 180°
(4) 270° ( )

18.



Herman is facing the MRT station. After turning an angle of 225° in the anti-clockwise direction, he faces the _____.

(1) cinema
(2) bus stop
(3) stadium
(4) swimming pool ( )

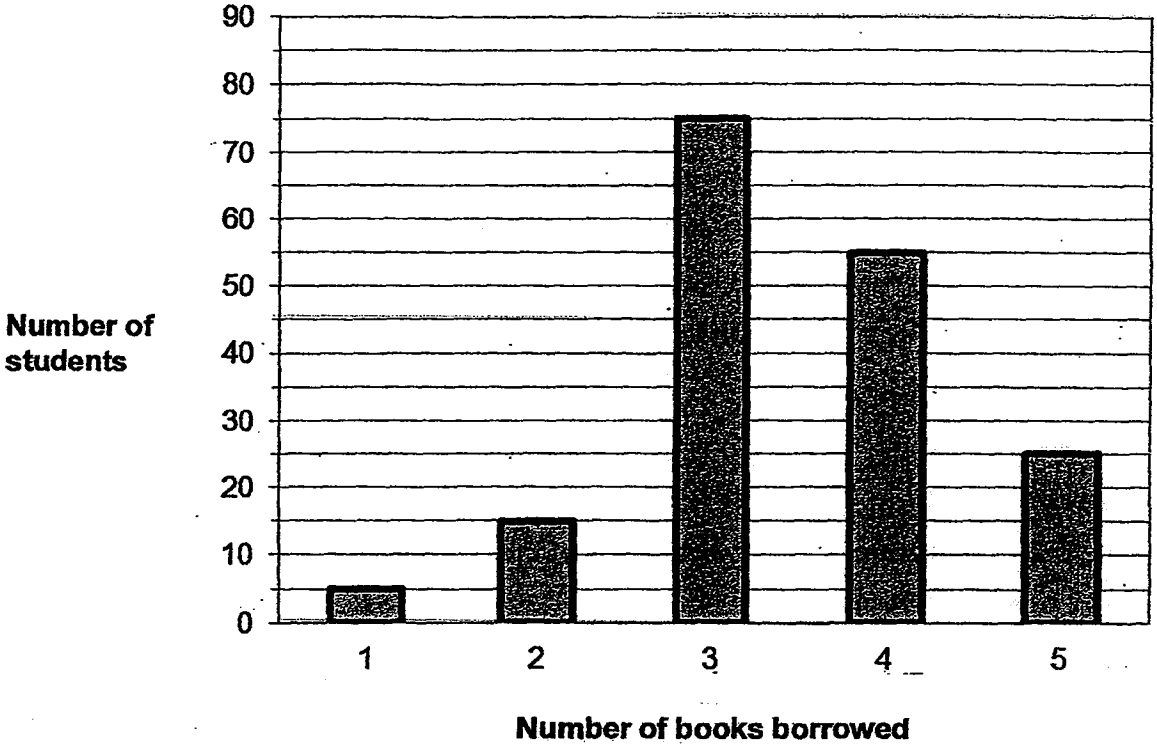
---

19. Carrie had 1 pizza. She gave $\frac{1}{9}$ of the pizza to a friend and ate $\frac{2}{9}$ of the pizza. What fraction of the pizza was left?

(1) $\frac{1}{3}$
(2) $\frac{2}{3}$
(3) $\frac{7}{9}$
(4) $\frac{8}{9}$ ( )

Study the graph below carefully and answer question 20.

The bar graph shows the number of students who borrowed books from the library.



20. How many students borrowed less than 3 books?

(1) 15
(2) 20
(3) 75
(4) 80 ( )

Section B: Short Answer Questions (40 marks)

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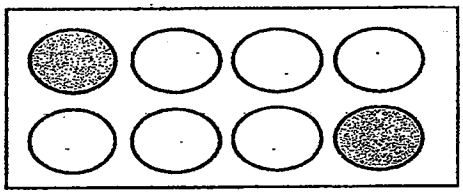
Question 21 to 40 carries 2 marks each. Write your answer in the blank provided

21. Write sixty-four thousand, three hundred and one in numerals.

Ans: _____

22. Study the shapes below. How many more ovals must be shaded so that $\frac{3}{4}$ of the ovals are shaded?



Ans: _____

23. Subtract 24 tens from 24 thousands.

Ans: _____

24. Arrange the following fractions in ascending order.

$\frac{3}{4}$, $\frac{5}{8}$, $\frac{1}{4}$

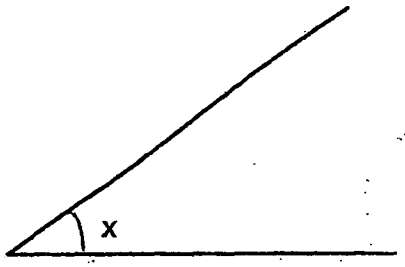
Ans: _____, _____, _____

Do not write in this space

25. There are 24 girls in a class. $\frac{2}{5}$ of the pupils in the class are boys. How many pupils are there altogether in the class?

Ans: _____

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



Ans: _____ °

27. An apple weighs $\frac{1}{5}$ kg. A guava is thrice as heavy as the apple. How much heavier does the guava weigh?

Ans: _____ kg

28. Which pair of lines AB, CD, GH and IJ are parallel lines?

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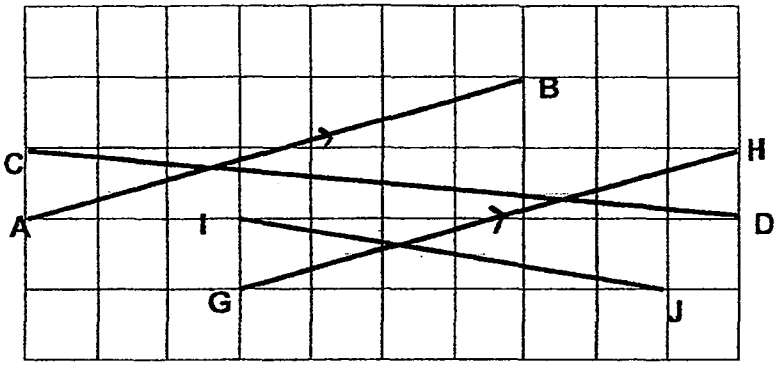
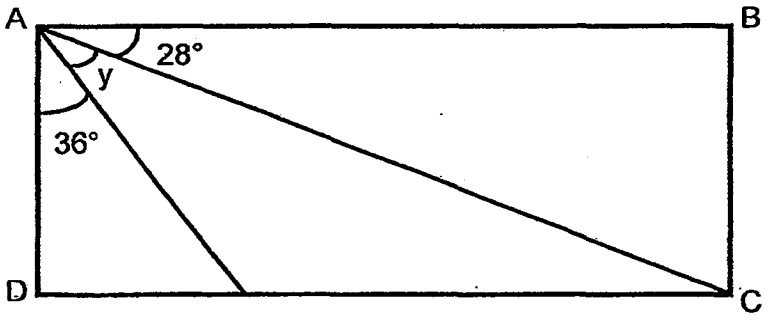


Ans: _____

29. ABCD is a rectangle. Find ∠y.



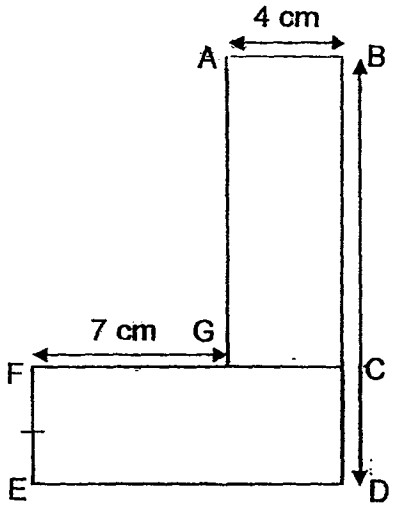
Ans: _____ °

30. Azel paid $30 for 1 chicken pie and 3 potato pies. The cost of 1 potato pie is half the cost of 1 chicken pie. How much did each potato pie cost?

Ans: $_____

Do not write in this space

31. The figure shown is made up of 2 identical rectangles ABCG and CDEF. Find the unknown length BD.



Ans: _____cm

32. Becky had an allowance of $81. She spent $18 on food, $9 on a magazine and saved the rest. What fraction of her allowance did she save? Leave the answer in the simplest form.

Ans: _____

33. There were 245 people at a party. $\frac{2}{5}$ of the people were men and the rest were women. How many women were there?

Ans: _____

34. Sean, Tim and Vajon have $54 altogether. Sean has $6 more than Tim and Vajon has $9 more than Tim. How much does Tim have?

Do not write in this space

Ans: $_____

35. Mr. Lim bought $\frac{1}{3}$ kg of prawns. Mr. Tan bought $\frac{1}{6}$ kg of prawns more than Mr. Lim. How many kilograms of prawns did both of them buy altogether?

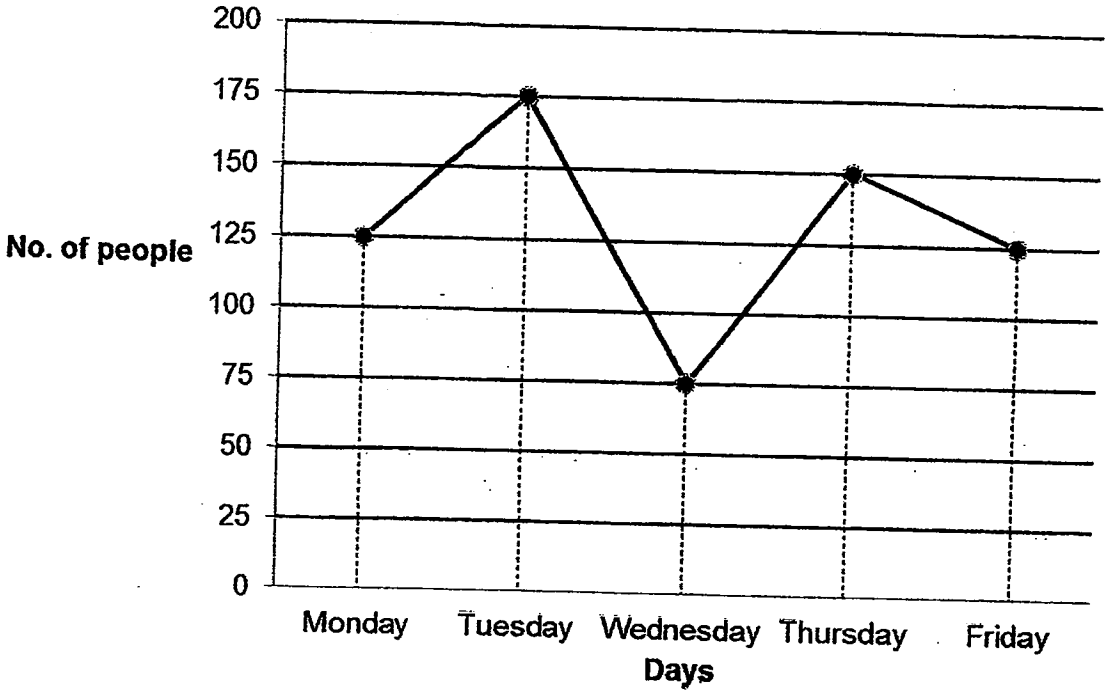
Ans: _____ kg

36. John had four times as much money as Carine. After John spent $87 of his money on a bag, he had the same amount of money as Carine. How much money did John have at first?

Ans: $_____

Study the graph below carefully and answer questions 37 and 38.
The graph shows the number of people at an amusement park from Monday to Friday.

Do not write in this space



37. During which one day interval was the decrease in the number of people the greatest?

Ans: _____ to _____

38. What is the total number of people who visited the amusement park from Wednesday to Friday?

Ans: _____

39. A notebook and 4 pens cost $13 altogether. The notebook costs $3 more than each pen. How much does each notebook costs?

Do not write in this space

Ans: $ _____

40. Jones and Chris had $126 each at first. Jones gave $\frac{1}{6}$ of his money to Chris. How much did Chris have in the end?

Ans: $ _____

Section C: Long Answer Questions (20 marks)

Question 41 to 45 carries 4 marks each. Write your answer in the blank provided. Show your workings clearly.

Do not write in this space

41. Darren, Eric and Felicia have a total of 96 buttons. Eric has 4 more buttons than Darren. Felicia has thrice as many buttons as the total number of buttons that Darren and Eric have. How many more buttons does Felicia have than Eric?

Ans: _____ [4]

42. Serene and Debbie shared a box of chocolate equally between them. After Serene ate 26 of her chocolates and Debbie ate 10 of hers, Debbie had three times as many chocolate left as Serene. How many chocolates did Serene have at first?

Do not write in this space

Ans: _____ [4]

Do not write in this space

43. Sarah baked some tarts on Monday. She gave $\frac{2}{3}$ of the tarts to her sister and was left with 14 tarts. On Tuesday, she baked 16 more tarts than on Monday. How many tarts did she baked altogether?

Ans: _____ [4]

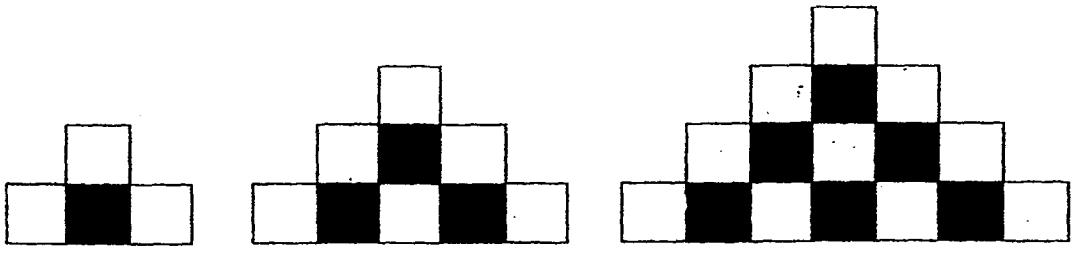
44. Wendy has less than 40 cupcakes. When she packed them in boxes of 6, she will have 5 extra cupcakes. When she packed them in boxes of 9, she is short of 4 cupcakes. How many cupcakes does she have?

Do not write in this space

Ans: _____ [4]

45. The patterns below are made up of identical black and white squares.

Do not write in this space



Pattern 1 Pattern 2 Pattern 3

a) Find the number of black squares in Pattern 4.

b) Find the number of white squares in Pattern 5.

c) Find the total number of black and white squares in Pattern 8.

Ans: a)_____ [1]

b)_____ [1]

c)_____ [2]

END OF PAPER.
Have you checked your work?

Exam Paper 2014 Answer Sheet

School: CATHOLIC HIGH SCHOOL
Subject: PRIMARY 4 MATHEMATICS
Term: SA1

Paper 1

1)	2	6)	3	11)	4	16)	3
2)	2	7)	1	12)	3	17)	4
3)	2	8)	3	13)	3	18)	1
4)	1	9)	3	14)	3	19)	2
5)	3	10)	3	15)	4	20)	2

21. 64301

22. 4

23. 23760

24. $^{1}/_{4}$, $^{5}/_{8}$, $^{3}/_{4}$

25. 40

26. 37

27. $^{2}/_{5}$

28. AB//GH

29. 26

30. 6

31. 15

32. $^{2}/_{3}$

33. 147

34. 13

35. $^{5}/_{6}$

36. 116

37. Tuesday to Wednesday

38. 350

39. 5

40. 147

41. 4 x 4 = 16
    96 – 16 = 80
    8u → 80
    1u → 10
    F → 10 x 6 = 60
    60 + 12 = 72
    E → 10 + 4 = 14
    72 – 14= **58 more buttons**

42. 2u → 26 – 10 = 16
    1u → 16 ÷ 2 = 8
    S → 26 + 8 = **34 chocolate**

43. 1u → 14
    3u → 14 x 3 = 42
    M → 42
    T → 42 + 16 = 58
    M + T → 58 + 42 = **100 tarts**

44.

÷ 6	6	12	18	24	30	36
R 5	11	17	**23**	29	35	41
÷ 9	9	18	27	36		
- 4	5	14	**23**	32		

45. (a) **10**
    (b) **21**
    (c) P8 → 36 + 45 = **81**