CATHOLIC HIGH SCHOOL
MID-YEAR EXAMINATION 2011
MATHEMATICS
PRIMARY 4

Name : _____(   )

Class: Primary 4 _____

Date: 10 May 2011

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 <u>18 pages</u> in this paper.

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

Section B: Short-Answer Questions   20 x 2 marks

Section C: Long-Answer Questions   5 x 4 marks

139

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). Please use only 2B pencil and SHADE the oval completely. All diagrams are not drawn to scale.

1. 5 thousands and 9 tens is the same as_____.

    (1)   590
    (2)   5009
    (3)   5090
    (4)   5800   (   )

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

    (1)   4680 , 4068 , 4608
    (2)   4068 , 4680 , 4608
    (3)   4680 , 4608 , 4068
    (4)   4068 , 4608 , 4680   (   )

3. $3\frac{5}{9} = \frac{\square}{9}$

What is the missing number in the box?

    (1)   15
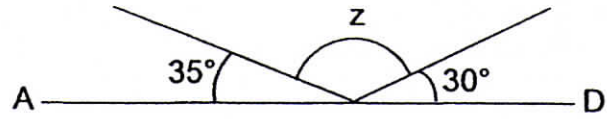   (2)   27
    (3)   32
    (4)   45   (   )

4. $\frac{1}{4}$ of a complete turn is _____.

    (1)   45°
    (2)   90°
    (3)   135°
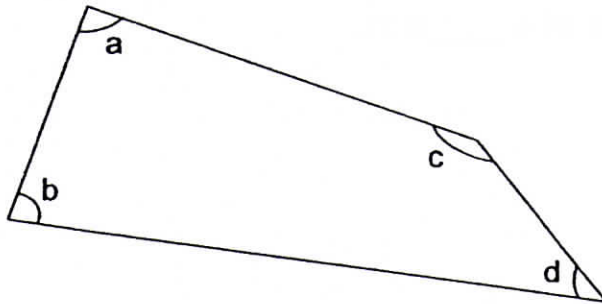   (4)   180°   (   )

1

5.

AD is a straight line, find ∠z.

    (1)   25°
    (2)   65°
    (3)   105°
    (4)   115°   (   )

6.   In the figure, which angle is greater than a right angle?

    (1)   ∠a
    (2)   ∠b
    (3)   ∠c
    (4)   ∠d   (   )

7.   Mr.Ong has 180 apples. He packs all of them into boxes. Each box contains 12 apples. How many boxes are needed to pack all the apples ?

    (1)   15
    (2)   19
    (3)   168
    (4)   192   (   )

8. Find the value of $\frac{2}{3} + \frac{1}{6} + \frac{1}{2}$.

   (1) $\frac{4}{11}$

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

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

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

   (   )

9. $77 \times 11 = 11 \times 11 + 22 \times 11 + \underline{\quad} \times 11$

   (1) 11
   (2) 22
   (3) 33
   (4) 44

   (   )

10. Tom has $\frac{1}{4}$ as many toy cars as John. If John has 24 toy cars more than Tom, how many toy cars does Tom have?

    (1) 6
    (2) 8
    (3) 40
    (4) 96

    (   )

11. Jordan bought 3 bags and 2 shirts for $376. If each bag costs twice as much as a shirt, how much did Jordan pay for each shirt?
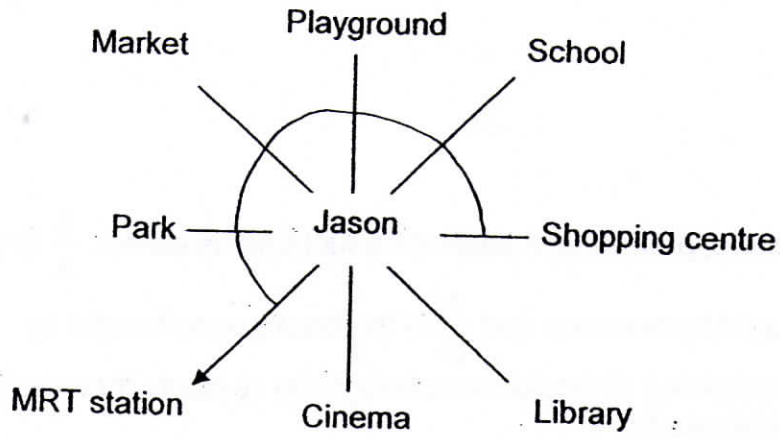
    (1) $6
    (2) $47
    (3) $94
    (4) $188

    (   )

12. James has a box of erasers that can be shared equally among 3, 4 or 8 of his friends. What is the least possible number of erasers in the box?

    (1)   12
    (2)   24
    (3)   32
    (4)   96   (   )

13. A group of teachers, parents and students bought some books. $\frac{1}{3}$ of the books were bought by teachers and $\frac{1}{2}$ of the books were bought by parents. If the remaining 15 books were bought by students, how many books were ~~sold~~ *bought* altogether?

    (1)   30
    (2)   45
    (3)   60
    (4)   90   (   )

14. Samuel gives some chocolate bars to 25 of his friends. Each of his friends receives 8 chocolate bars. If Samuel has 5 chocolate bars left, how many chocolate bars does he have at first?

    (1)   133
    (2)   160
    (3)   200
    (4)   205   (   )

15. Mrs Lim bought 26 boxes of paper clips. Each box contains 150 paper clips. How many paper clips did Mrs Lim buy?

    (1)   900
    (2)   1200
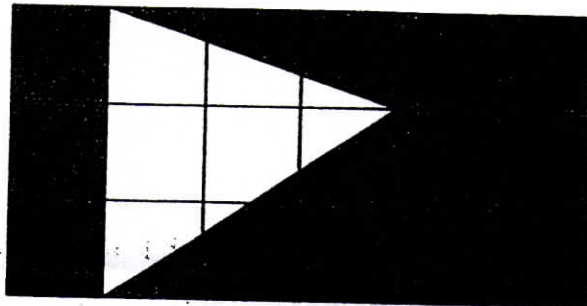   (3)   3000
    (4)   3900   (   )

4

16. Jason is facing the MRT station. If he turns through an angle of 225° in the clockwise direction, which place will he face?

Playground
Market   School
Park —— Jason —— Shopping centre
MRT station   Cinema   Library

(1) Park
(2) School
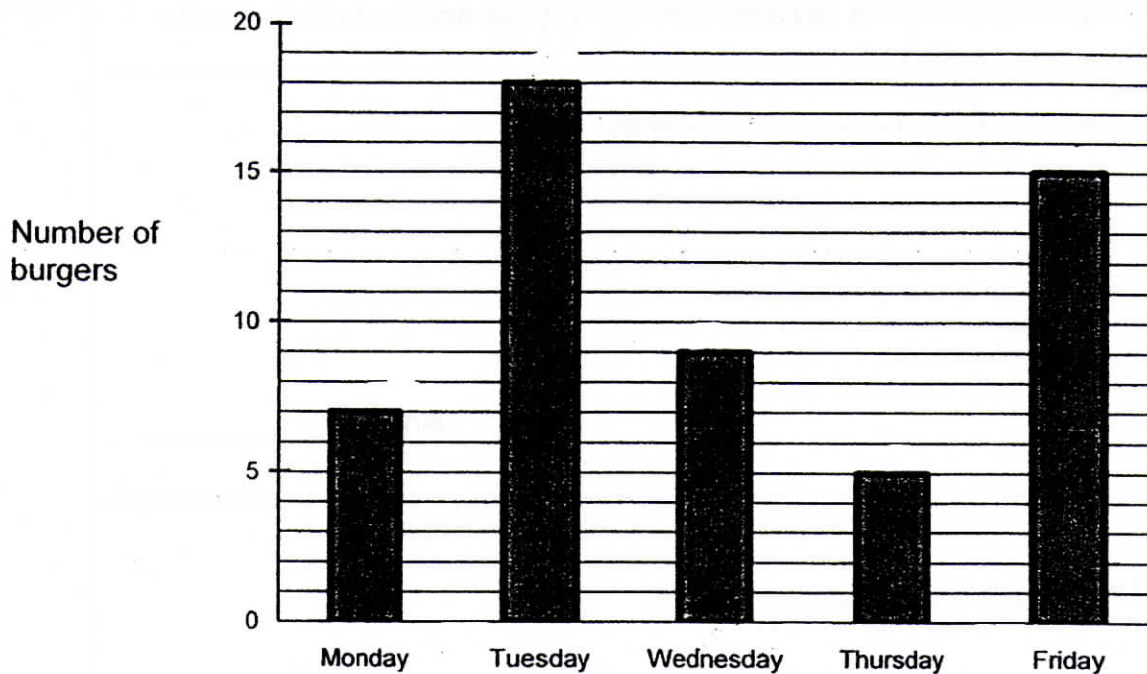(3) Playground
(4) Shopping centre   (   )

17. The figure is made up of 18 identical squares. What fraction of the figure is unshaded?

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

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

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

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

The bar graph below shows the number of burgers Parveen sold from Monday to Friday. Using the bar graph, answer question 18 and 19.

18. On which days did Parveen sell less than 10 burgers?

    (1) Monday, Tuesday and Wednesday
    (2) Monday, Wednesday and Thursday
    (3) Tuesday, Wednesday and Thursday
    (4) Wednesday, Thursday and Friday   (   )

19. Parveen earns $2 for each burger sold. How much money did she earn in all?

    (1) $45
    (2) $54
    (3) $108
    (4) $120   (   )

20. Johnny scored 19 marks more than Tommy in a Science test. Sammy scored 7 marks more than Johnny in the same test. If Sammy scored 74 marks, how many marks did Tommy score?

    (1) 48
    (2) 67
    (3) 81
    (4) 100   (   )

6

145

Questions 21 to 40 carry 2 marks each. Write your answers in the space provided. For questions which require units, give your answers in the units stated.

21. Round off 34 949 to the nearest hundreds.

Ans:_____

22. $5026 \div 7 = $ _____ .

Ans:_____

23. Find the value of $\dfrac{7}{9} - \dfrac{1}{3} \cdot \dfrac{3}{9}$

Ans:_____

SCORE

24. Fill in the blanks with the correct number in the number pattern below.

164, 276, 388, _____, 612

Ans:_____

25. Arrange the following fractions from the smallest to the greatest.

$\frac{6}{14}\frac{3}{7}$, $\frac{3}{14}$, $\frac{11}{14}$

Ans:_____, _____, _____

26. Jill, Sunny and Richard have a total of $150. Jill and Sunny have the same amount of money while Richard has twice the total amount of money Jill and Sunny have. How much money does Jill have?

Ans:$_____

SCORE

8

147

27. There are 26 chickens and cows in a farm. These animals have a total of 80 legs. How many cows are there in the farm?

Ans:_____

28. Ivan spent $\frac{1}{3}$ of his money on a toy car and had $60 left. How much money did he spend on the toy car?

Ans: $_____

29. Mr Lee is now thrice as old as his son, Adam. If Adam is 10 years old now, how old will Mr Lee be in 15 years time?
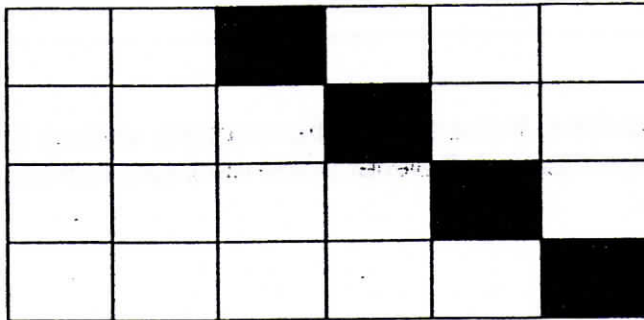
Ans:_____

SCORE

30. Jean has a total of 363 stickers. How many bags does she need if she puts 11 stickers into each bag?

Ans:_____

31. Xavier ran $1\frac{1}{3}$ km on Monday and $2\frac{1}{4}$ km on Tuesday. Find the total distance he ran in the two days. Express your answer as a mixed number in its simplest term.
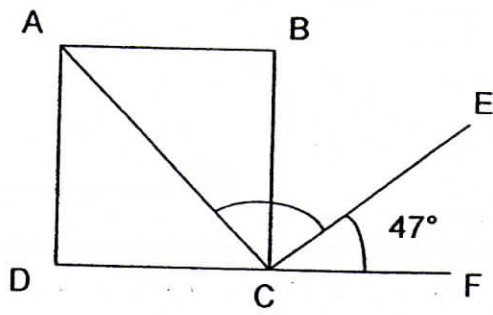
Ans _____ km

32. If $\frac{5}{8}$ of the figure is to be shaded, how many more rectangles must be shaded?
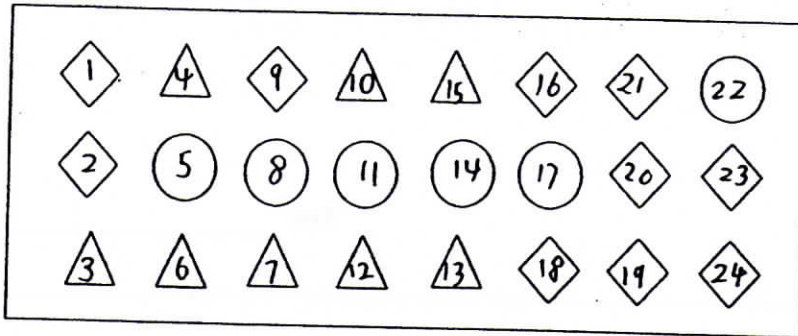

Ans: _____

SCORE

149

33. ABCD is a square. DCF is a straight line. Find ∠ACE.

A   B

E

47°

D   C   F

Ans:_____ °

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34. What fraction of the shapes are circles? Express your answer in the simplest form.

⟨1⟩ ⟨4⟩ ⟨9⟩ ⟨10⟩ ⟨15⟩ ⟨16⟩ ⟨21⟩ (22)

⟨2⟩ (5) (8) (11) (14) (17) ⟨20⟩ ⟨23⟩
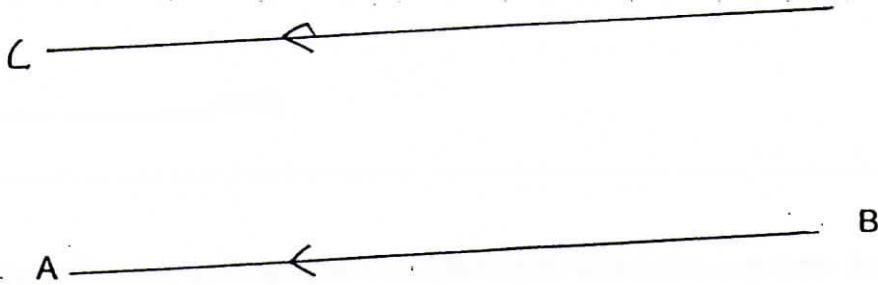
⟨3⟩ ⟨6⟩ ⟨7⟩ ⟨12⟩ ⟨13⟩ ⟨18⟩ ⟨19⟩ ⟨24⟩

Ans:_____

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35. A teacher has a bag of marbles. If she shares them equally among 3 or 5 pupils, she will have 1 extra marble left. What is the minimum number of marbles in the bag?

Ans: _____

SCORE

11

36. AB is a straight line. Construct a line CD that is parallel to line AB and a line BD that is perpendicular to line AB.

C ⟵ ———————————

B

A ⟵ ———————————

37. Tom and Jerry brought $70 each to a supermarket. After Tom spent $40 and Jerry spent some money on groceries, Tom had thrice the amount of money Jerry had left. How much money did Jerry have left?

Ans:$ _____

SCORE

12

151

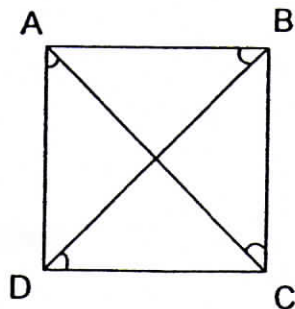38. John's mass is $\frac{11}{12}$ the mass of Mary's. If Mary is 6 kg heavier than John, what is John's mass?

Ans:_____kg

39. Dan had twice as many pieces of chocolate as Faizal at first. After Dan gave Faizal 13 pieces of chocolate, they both had the same amount of chocolates. How many pieces of chocolate did Dan have at first?

Ans:_____

40. ABCD is a square. Find the sum of ∠ABD, ∠BCA, ∠CDB and ∠DAC.

Ans:_____

13

SCORE

Questions 41 to 45 carry 4 marks each. Write your answers in the space provided. Show your working clearly.

41.   Sammy has $\dfrac{7}{11}$ as much money as Jeremy. If they have a total of $198, how much money must Jeremy give Sammy so that they will have the same amount of money?

Ans: _____ [4m]

SCORE [   ]

153

42. 168 children went to Universal Studios. $\frac{1}{3}$ of the girls is equal to $\frac{4}{9}$ of the boys. How many boys visited Universal Studios?

Ans: _____ [4m]

SCORE

15

43. Randy and Kelly have the same number of books at first. After Randy gave away 25 books to Kelly, Randy has $\frac{3}{8}$ as many books as Kelly. How many books did each of them have at first?

Ans: _____ [4m]

SCORE

16

155

44. Chrystal had four times as many stamps as Shaun. After Chrystal gave away 396 stamps, Shaun had thrice as many stamps as Chrystal. What is the total number of stamps both of them have at first?

Ans: _____ [2m]

SCORE

45. Jerome saved his money in 3 piggy banks. He has a total of $175 in piggy bank A and B, and a total of $423 in piggy banks B and C. If he saved 5 times as much money in piggy bank C as A, how much money did he save in piggy bank B?

Ans: _____[4m]

☺ END OF PAPER ☺

PLEASE CHECK YOUR WORK!

SCORE

Catholic High School
Mid-Year Examination 2011
Mathematics, Primary 4

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	3	2	4	3	1	3	4	2

Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
2	2	4	4	4	4	2	2	3	1

Q21) 34900 | Q22) 718 | Q23) $\frac{4}{9}$ | Q24) 500

Q25) $\frac{4}{9}, \frac{4}{9}, \frac{4}{9}$ | Q26) 150 ÷ 6 = $25 | Q27) 14 cows

Q28) 60 ÷ 2 = $\underline{\$30}$ | Q29) 3 × 10 = 30 | 30 + 15 = $\underline{45}$

Q30) 363 ÷ 11 = $\underline{33}$ | Q31) $1\frac{4}{12} + 2\frac{3}{12} = 3\frac{7}{12}$

Q32) 24 ÷ 8 = 3 | 3 × 5 = 15 | 15 − 4 = $\underline{11}$

Q33) 90 ÷ 2 = 45 | 45 + 47 = 92 | 180 − 92 = $\underline{88}$

Q34) $\frac{6}{24} = \frac{1}{4}$ | Q35) 3 × 5 = 15 | 15 + 1 = $\underline{16}$

Q37) 70 − 40 = $\underline{\$30}$ | 30 ÷ 3 = $10 | Q38) 11 × 6 = $\underline{66}$

Q39) 1unit = 13 × 2 = 26 | 2units = 26 × 2 = $\underline{52}$

Q40) 90 ÷ 2 = 45 | 45 × 4 = <u>180</u>

Q41) 18units = $198 | 1unit = 198 ÷ 18 = $11 | 2units = $11 x 2 = $22
Amount of money Jeremy must give Sammy = <u>$22</u>

Q42) 1 unit = 168 ÷ 21 = 8 | 9units = 9 x 8 = 72
<u>72</u> boys visited Universal Studios.

Q43) 10 ÷ 2 = 5 | 1unit = 25 ÷ 5 = 5 | 5 x 6 = 30 | 30 + 25 = 55
Each of them had <u>55</u> books at first.

Q44) 11units = 396 | 1unit = 396 ÷ 11 = 36
Chrystal = 36 + 396 = 432 | Shaun = 3 x 36 = 108
Total stamps they had at first = 432 + 108 = <u>540</u>

Q45) 4units = 423 – 175 = $248 | 1unit = 248 ÷ 4 = $62
Money saved in bank B = 175 – 62 = <u>$113</u>