CATHOLIC HIGH SCHOOL
MID-YEAR EXAMINATION 2014
MATHEMATICS
PRIMARY 3

Name :_____( )

Class: Primary 3 _____

Date: 20 May 2014

Duration: 1 h 45 min

Parent's Signature: _____

Section A	30
Section B	34
Section C	16
Total Marks	80

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 17 printed pages.

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SECTION A: Multiple-Choice Questions (15 x 2 marks)

For each of the question from 1 to 15, 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. Find the sum of 796 and 1349.

(1) 553
(2) 2035
(3) 2145
(4) 9309 ( )

2. Part of a scale is shown below. What is the value of the reading at X?



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

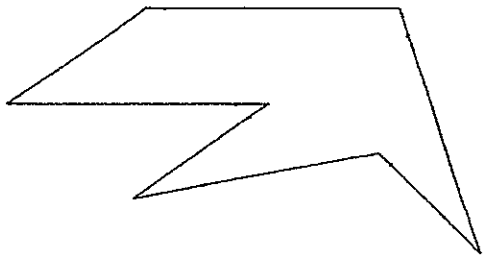
(2) $\frac{8}{10}$

(3) $\frac{6}{8}$

(4) $\frac{7}{8}$ ( )

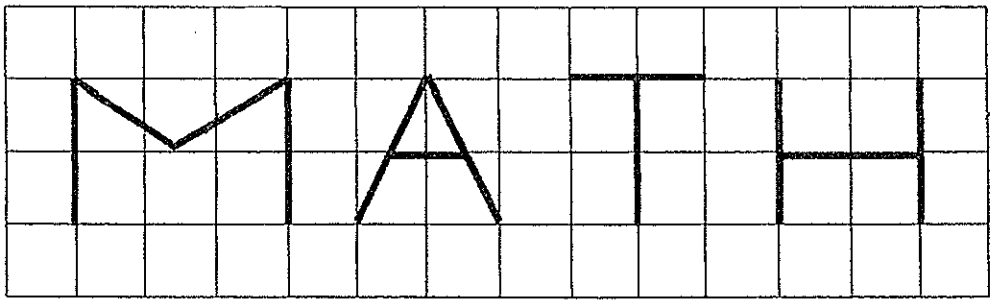
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3. How many angles are there in the figure?



(1) 7
(2) 9
(3) 3
(4) 4 ( )

4. In the square grid, how many letters shown below have parallel lines?



(1) 1
(2) 2
(3) 3
(4) 4 ( )

5. Zachary left a birthday party at 2.05 p.m.
He was at the party for 3 h 15 min.
At what time did he arrive at the party?

(1) 5.20 a.m.
(2) 10.50 a.m.
(3) 5.20 p.m.
(4) 10.50 p.m. ( )

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6. Find the product of 1064 and 7.

(1) 7028
(2) 7048
(3) 7428
(4) 7448

( )

7. 6840 is 20 tens less than _____.

(1) 6620
(2) 6640
(3) 7860
(4) 7040

( )

8. 6 × 6 = _____ groups of 4

What is the missing number in the blank?

(1) 36
(2) 54
(3) 9
(4) 4

( )

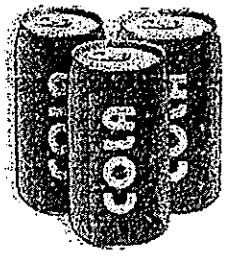
9. 2 identical cups of water can fill a jug.
8 such jugs of water can fill a pail.
How many cups of water can fill a pail?

(1) 6
(2) 2
(3) 10
(4) 16

( )

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10. John bought 9 cans of cola from a supermarket at a special offer. How much did he pay in all?



Special offer

3 cans for $2.20

(1) $4.40
(2) $6.60
(3) $11.20
(4) $19.80 ( )

11. Fred donated $6574 to a local charity. He donated $480 less than Peter. How much did Peter donate?

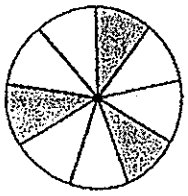
(1) $6094
(2) $6114
(3) $6954
(4) $7054 ( )

12. Which one of the following numbers does not have a remainder when divided by 5?

(1) 223
(2) 230
(3) 364
(4) 891 ( )

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13. The circle shown below is divided into equal parts.
What fraction of the figure is unshaded?



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

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

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

(4) $\frac{3}{8}$ ( )

14. Calvin made a pizza. He ate $\frac{1}{6}$ of the pizza and gave $\frac{1}{2}$ of it to his brother. What fraction of the pizza was left?

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

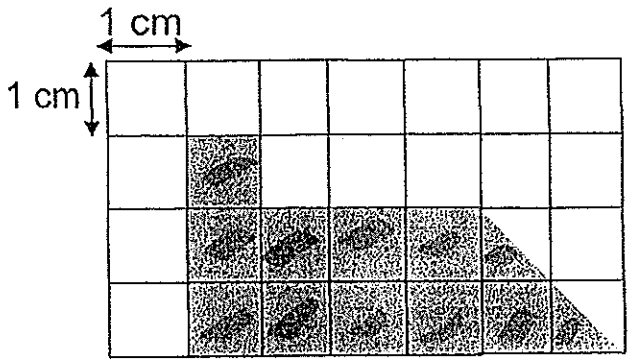
(2) $\frac{1}{3}$

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

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

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15. What is the area of the shaded figure shown below?



(1) 11 cm^2
(2) 12 cm^2
(3) 15 cm^2
(4) 16 cm^2 ( )

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SECTION B: Open-ended Questions (6x1 mark and 14x2 marks)
Questions 16 to 21 carry 1 mark each. Questions 22 to 35 carry 2 marks each. Show your working clearly in the space provided and write the correct answers in the answer boxes provided.

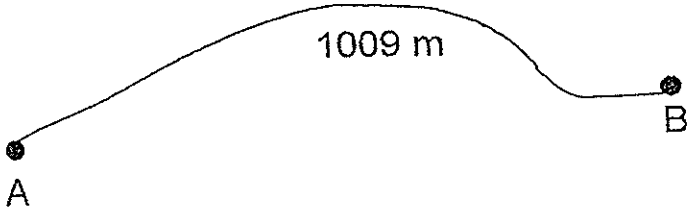
16. What is the value of digit 8 in 9861?

Ans: ____

17. Express $\frac{3}{12}$ in its simplest form.

Ans: ____

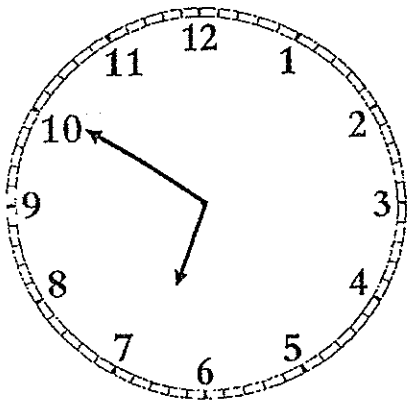
18. Write the distance between Point A and Point B in kilometres and metres.



Ans: ____ km ____ m

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19. Wendy took her dinner at the time shown on the clock.
What time did she take her dinner?



Ans: _____ p.m.

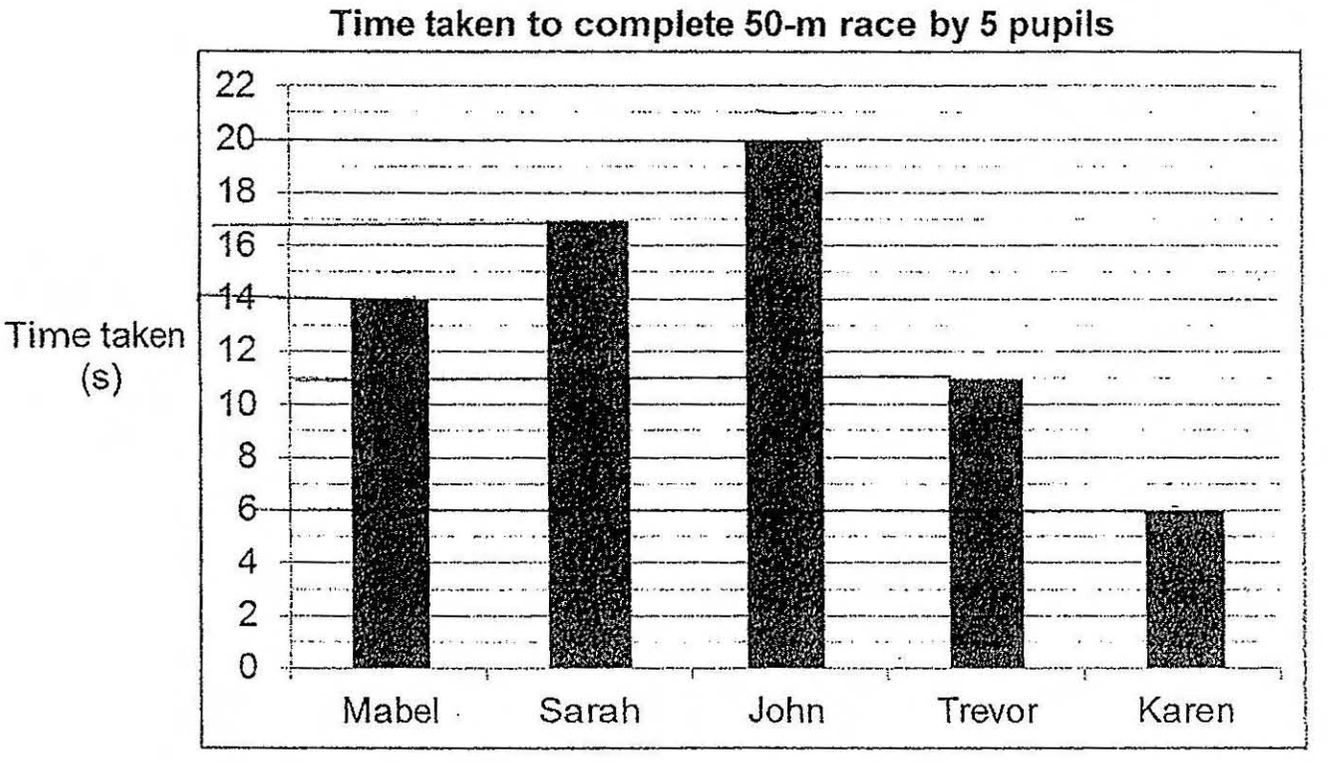
20. Arrange the fractions in order, beginning with the greatest.

$\frac{2}{5}$, $\frac{2}{3}$, $\frac{2}{7}$

Ans: _____, _____, _____
greatest smallest

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The graph below shows the time taken for 5 pupils to complete a 50-m race. Use the information given to answer questions 21 to 23.



21. Which pupil took the most time to complete the race?

Ans: _____

22. How much less time did Sarah take to complete the race than John?

Ans: _____ s

23. What is the total time taken for the first 3 winners to complete the race?

Ans: _____ s

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24. Find the quotient when 769 is divided by 8.

Ans: ____

25. Joe coloured $\frac{1}{12}$ of a picture in the morning. He coloured $\frac{3}{4}$ of the same picture in the afternoon. What fraction of the picture was coloured?
(Express your answer in the simplest form.)

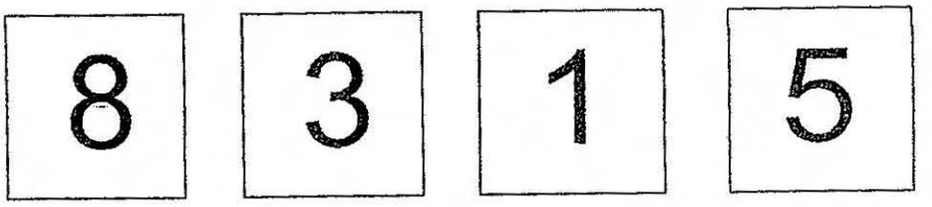
Ans: ____

26. After spending $3560 on a television set, Daniel has $585 left. How much money did he have at first?

Ans: $ ____

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27. Use the following digits to form the greatest 4-digit even number.
All the digits must be used and each digit can only be used once.



Ans: _____

28. Joseph started his piano lesson at 1.55 p.m.
His lesson ended at 3.00 p.m. How long was his piano lesson?
Leave your answers in hour and minutes.

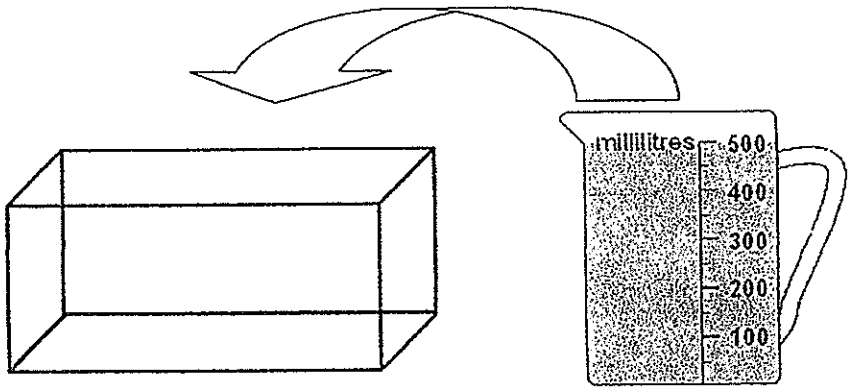
Ans: _____ h _____ min

29. 10 identical marbles weigh 35 g.
Find the mass of 30 such marbles.

Ans: _____ g

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30. Study the diagram below. The beaker contained some milk as shown.



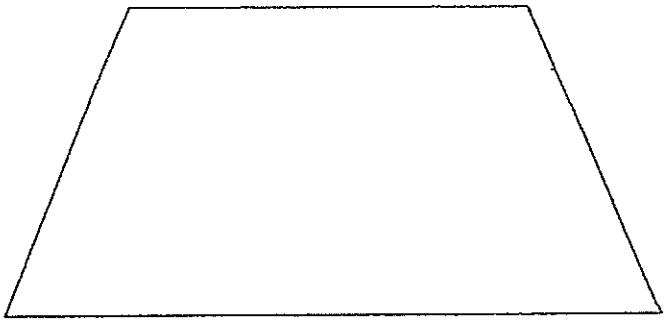
Fred poured all the milk from the beaker into an empty container.

He had only enough milk to fill $\frac{1}{2}$ of the container.

How much milk can the container hold when it is completely filled?

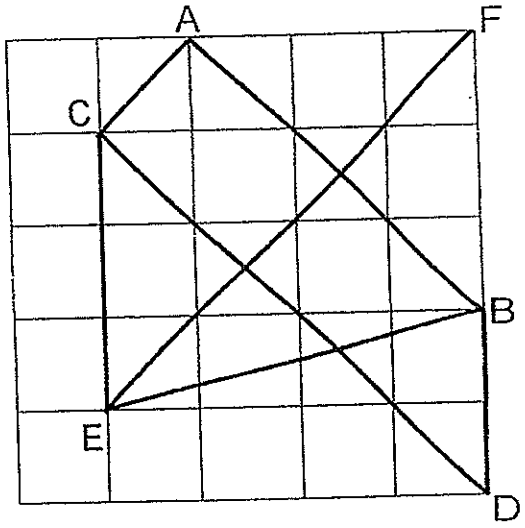
Ans: _____ ml

31. Mark all the angles that are greater than a right angle in the figure below.



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32. In the square grid, which two lines are perpendicular to AB?



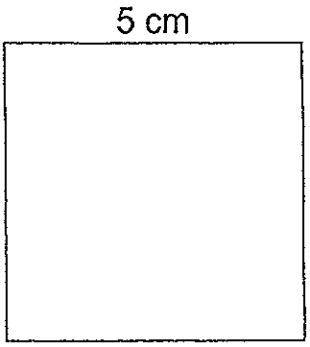
Ans: [and]

33. Koen and Calvin had the same amount of money in their wallets at first. After Koen gave Calvin $45, how much more money did Calvin have than Koen in the end?

Ans: [$]

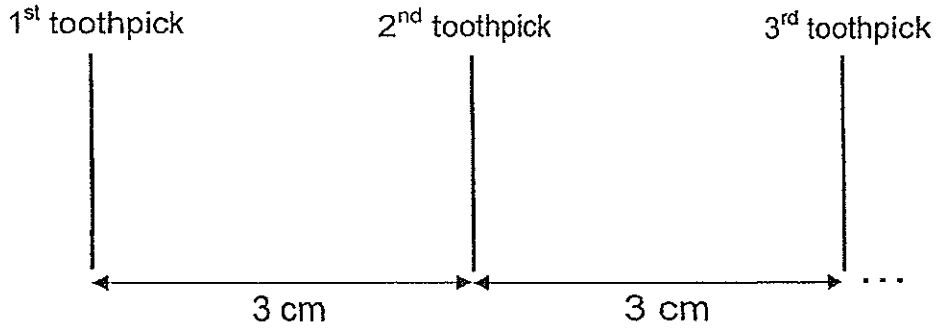
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34. Find the area of the square shown below.



Ans: _____ cm^2

35. 6 toothpicks were laid on a table as shown below.
Each toothpick was placed at 3 cm away from the next one.
What was the distance between the 1st and 6th toothpick?



Ans: _____ cm

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SECTION C: Story Sums (4 x 3 marks and 1 x 4 marks)
Solve the following story sums. All workings must be shown clearly. Draw models if necessary.

36. Kenneth and Pauline have 1070 beads. Kenneth has 400 beads more than Pauline. How many beads does Pauline have?

Ans: _____ [3]

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37. Clara baked 160 cookies. After packing an equal number of cookies into 6 bags, she had 16 cookies left. How many cookies were packed in each bag?

Ans: _____ [3]

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38. Alan, Bryan and Carl shared some stamps.
Bryan had twice as many stamps as Alan and Carl had thrice as many stamps as Bryan.
Carl had 60 more stamps than Alan.
How many stamps did Carl have?

Ans: _____ [3]

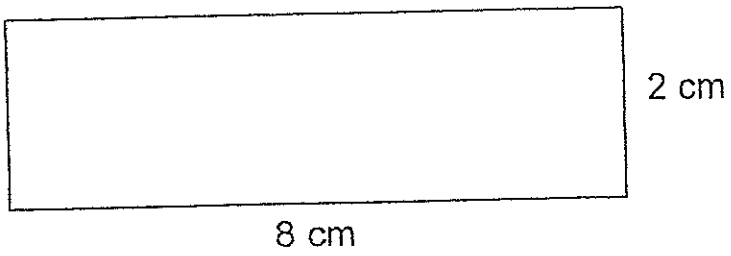
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39. Charles bought a box of cereal and a loaf of bread. He gave the cashier $14 and received $3.45 in change. The box of cereal cost $7.45. How much did the loaf of bread cost?

Ans: _____ [3]

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40. Jeff was given a piece of wire. He bent the wire to form a rectangle as shown below.



(a) What was the length of the piece of wire given to Jeff?

Ans: (a) _____ [2]

(b) Find the area of rectangle formed by Jeff.

Ans: (b) _____ [2]

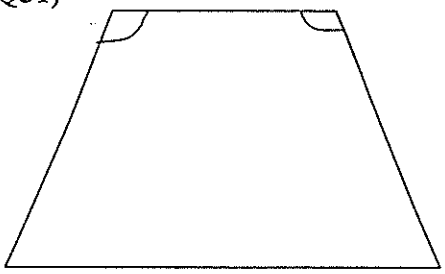
END OF THE PAPER

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Year: 2014
Level: Primary 3
School: Catholic High School
Subject: Mathematics
Semester: SA1

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

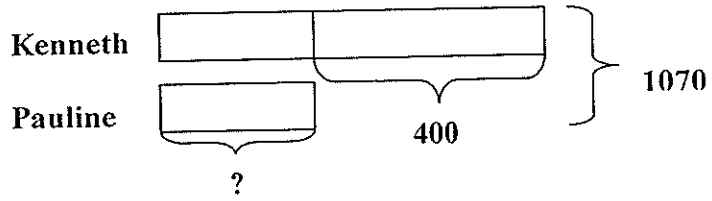
Q16) 800
Q17) ¼
Q18) 1 km 9 m
Q19) 6.50 pm
Q20) 2/3, 2/5, 2/7
Q21) John
Q22) 3
Q23) 31
Q24) 96
Q25) 5/6
Q26) $4145
Q27) 5318
Q28) 1 h 5 min
Q29) 105 g
Q30) 1000 ml
Q31)



Q32) EF and AC
Q33) $90
Q34) 25 cm²
Q35) 15 cm

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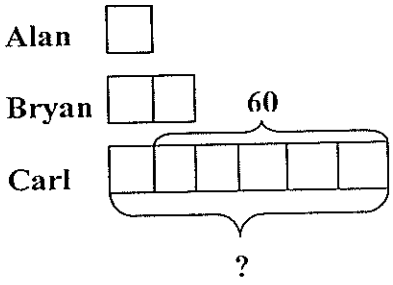
Q36)



1070-400=670
670÷2=335
Answer: 335

Q37) 160-16=144
144÷6=24
Answer: 24

Q38)



5 units → 60
1 unit → 60÷5 = 12
60+12=72
Answer: 72

Q39) $14.00-$3.45=$10.55
$10.55-$7.45=$3.10
Answer: $3.10

Q40)a) Length of the piece of wire given to Jeff
= 8 cm+ 2 cm + 8 cm + 2 cm
= 20 cm
Answer: 20 cm
b) Area of rectangle formed by Jeff
= 2 cm × 8 cm
= 16 cm^2
Answer: 16 cm^2

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