CATHOLIC HIGH SCHOOL

PRIMARY FOUR
MATHEMATICS

Name : _____( )

Class: Primary 4 _____

Date:

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 22 printed pages excluding the cover page.

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. All diagrams are not drawn to scale. (40 marks)

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1. 9 ten thousands, 20 tens and 3 ones is the same as _____.

   (1) 9023

   (2) 9203

   (3) 90 023

   (4) 90 203 ( )

---

2. Which of the following numbers is <u>not</u> a factor of 75?

   (1) 1

   (2) 2

   (3) 3

   (4) 5 ( )

---

3. How many quarters are there in $5\frac{3}{4}$?

   (1) 23

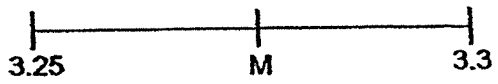
   (2) 20

   (3) 3

   (4) 5 ( )

---

4. M is the midpoint of 3.25 and 3.3. What is the value of point M?



(1) 3.255

(2) 3.259

(3) 3.275

(4) 3.26 ( )

---

5. Express 0.8 as a fraction.

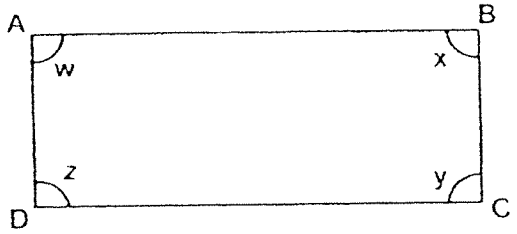
(1) $\frac{1}{8}$

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

(3) $\frac{8}{100}$

(4) $\frac{8}{1000}$ ( )

6.



Which of the following angle is ∠BCD?

(1) ∠w

(2) ∠x

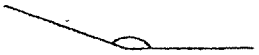
(3) ∠y

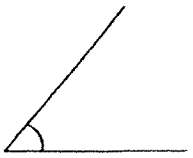
(4) ∠z ( )

7. Which of the following shows the closest estimate to 125°?

(1) 

(2) 

(3) 

(4) 

( )

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8. One of the numbers given below can be divided by 4 without a remainder. When 4 is added to the number, the number can be divided by 5 without a remainder. Which of the following is the number?

(1) 12

(2) 24

(3) 30

(4) 36 ( )

---

9. The capacity of container A is $\frac{3}{5}$ ℓ. Its capacity is $\frac{1}{3}$ ℓ less than the capacity of container B. What is the capacity of container B?

(1) $\frac{1}{15}$ ℓ

(2) $\frac{4}{15}$ ℓ

(3) $\frac{14}{15}$ ℓ

(4) $1\frac{8}{15}$ ℓ

( )

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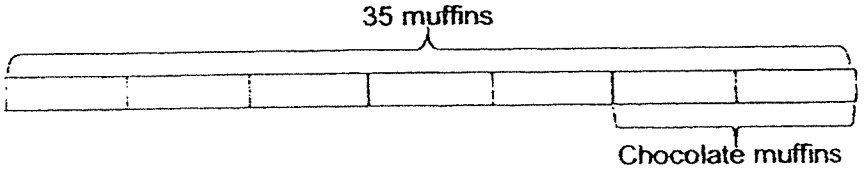
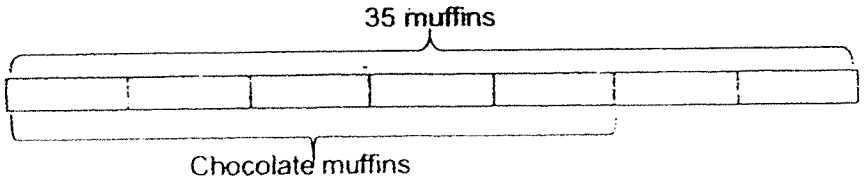
10. Kelly baked 35 muffins. $\frac{5}{7}$ of them were chocolate muffins.
Which one of the following models describes the question above?

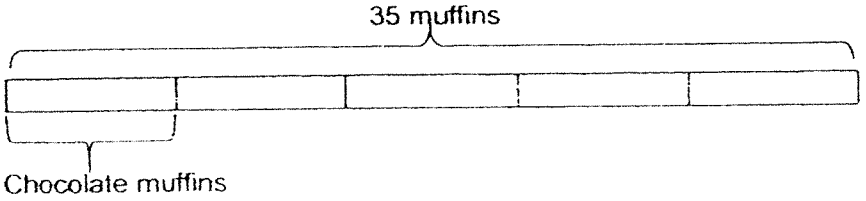
(1)



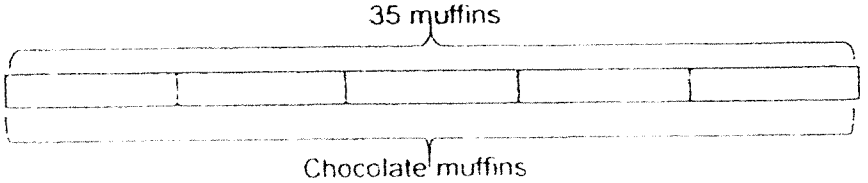
(2)



(3)



(4)



( )

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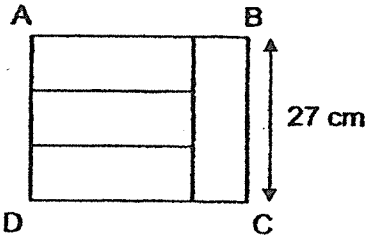
11. Figure ABCD is made up of 4 identical rectangles. Find length AB.



(1) 36 cm

(2) 63 cm

(3) 126 cm

(4) 972 cm

( )

---

12. The table below shows the start time and end time of each musical at different venues in a concert hall.

Musical	Start Time	End Time
Song Of Music	2.30 p.m.	4.30 p.m.
The Tiger King	4.10 p.m.	5.15 p.m.
Rold Dahl Matilda	3.15 p.m.	4.45 p.m.
Geronimo Still Stand	3.30 p.m.	5.30 p.m.

Ahmad arrives at the concert hall at 3.05 p.m.
He needs to leave by 5.00 p.m.
Which musical can Ahmad watch from the start to the end?

(1) Song Of Music

(2) The Tiger King

(3) Rold Dahl Matilda

(4) Geronimo Still Stand

( )

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13. Henry played tennis for 2 h 25 min. He finished playing at 16 20. What time did he start playing?

(1) 13 05

(2) 13 55

(3) 14 05

(4) 18 45 ( )

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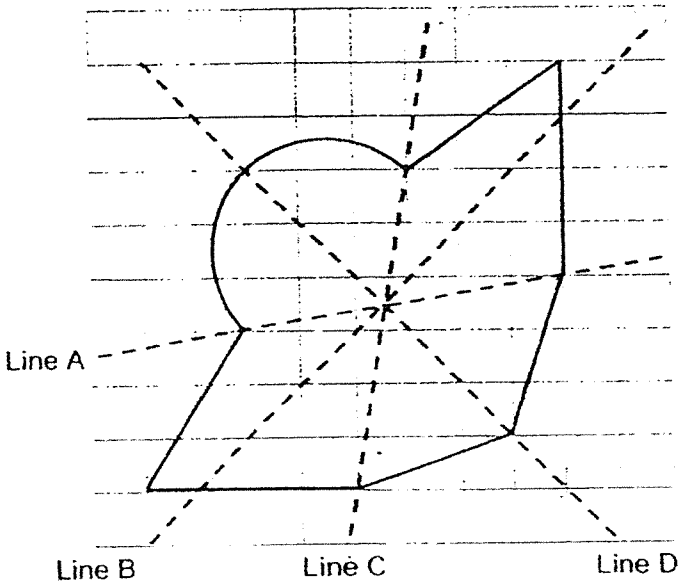
14. A figure is drawn in the square grid below. Which of the following dotted lines is a line of symmetry of the figure?



(1) Line A

(2) Line B

(3) Line C

(4) Line D ( )

---

15. Express 25 tenths and 4 hundredths as a decimal.

(1) 2.54

(2) 25.4

(3) 25.04

(4) 2.504 ( )

---

16. Sam spent $\frac{1}{3}$ of his money on a soccer ball. The soccer ball cost \$54.
How much money did he have at first?

(1) \$18

(2) \$27

(3) \$108

(4) \$162 ( )

---

17. At a carnival, every 6th participant receives a cup of drink and every 8th participant receives a key chain. Which is the first participant who receives both a cup of drink and a key chain?

(1) 24

(2) 36

(3) 48

(4) 72 ( )

---

18. Leo spent \$2.15 on a pen. He spent 90¢ more on an exercise book.
How much money did Leo spend on the pen and the exercise book?

(1) \$3.05

(2) \$4.39

(3) \$5.20

(4) \$11.15 ( )

---

19. Which of the following decimals when rounded to the nearest whole number or rounded to 1 decimal place gives the same value?

(1) 19.48

(2) 19.58

(3) 19.94

(4) 19.95 ( )

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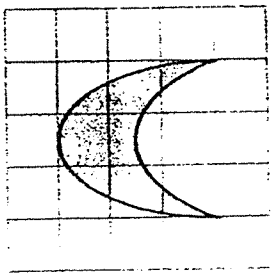
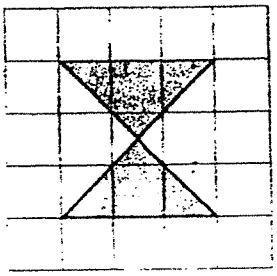
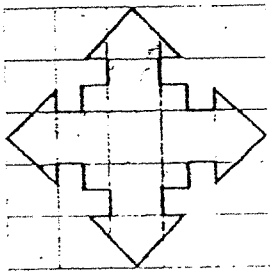
20. Each figure is drawn in a square grid. Which of these figures have at least 2 lines of symmetry?



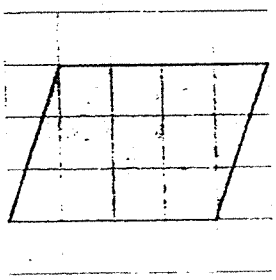
A



B



C



D

(1) A and B

(2) B and C

(3) C and D

(4) D and B ( )

END OF SECTION A

Section B

Do not write in this space

Questions 21 to 40 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale.

(40 marks)

21. Write sixty thousand, two hundred and five in numerals.

Ans: _____

22. Use all the digits below to form the biggest 4-digit odd number. Each digit can only be used once.

2	0	9	4

Ans: _____

23. A number when rounded to the nearest hundred becomes 6700. What could the smallest possible whole number be?

Ans: _____

(Go on to the next page)

24. Mrs Lim had $\frac{2}{3}$ of a pizza. Mrs Eng had $\frac{1}{4}$ of a similar pizza.
How much more pizza did Mrs Lim have than Mrs Eng?

Ans: _____

25. Write the missing number in the number pattern below.

2408 , 2608 , 2808 , 3008 , _____?_____ , 3408 , 3608

Ans: _____

(Go on to the next page)

26. Sharon is facing the swimming pool.
Where will she face when she turns 225° anti-clockwise?

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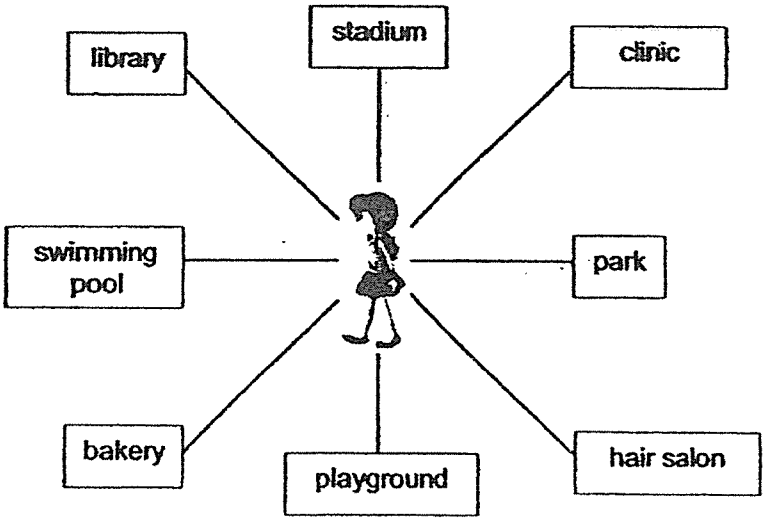


Ans: _____

27. Grace and Emily have 360 stickers altogether. Emily has twice as many stickers as Grace. How many stickers must Emily give to Grace so that they have the same number of stickers?

Ans: _____

28. Mrs Ang has 2 pieces of cloths of length 48 cm and 56 cm. She cuts each cloth into shorter pieces of equal length. Every piece from both cloths is of the same length. What is the greatest length of each shorter piece of cloth that can be cut?

Do not write in this space

Ans: _____ cm

29. What is the value of 4 ÷ 7? Correct your answer to 1 decimal place.

Ans: _____

30. Alan paid $68 for a racket and 2 similar water bottles. The racket cost as much as the 2 water bottles. How much did he pay for 1 such water bottle?

Do not write in this space

Ans: $_____

31. When a number is divided by 3, it has a quotient of 1351 and a remainder of 2. What is the number?

Ans: _____

32. Jug A contains 6.2 ℓ of apple juice. Jug B contains 3.8 ℓ of carrot juice. Yann mixed the juice from both jugs to make fruit punch. He then poured away 1.47 ℓ of fruit punch. How much fruit punch did Yann have left?

Ans: _____ ℓ

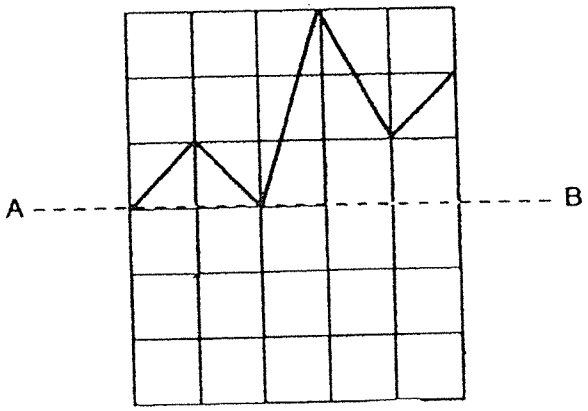
33. Arrange the following in increasing order.

Do not write in this space

3.25	$3\frac{5}{6}$	$\frac{25}{8}$

Ans: _____

34. Part of a figure is drawn in a square grid.
Complete the figure using line AB as the line of symmetry.



Study the grid below carefully and answer question 35.

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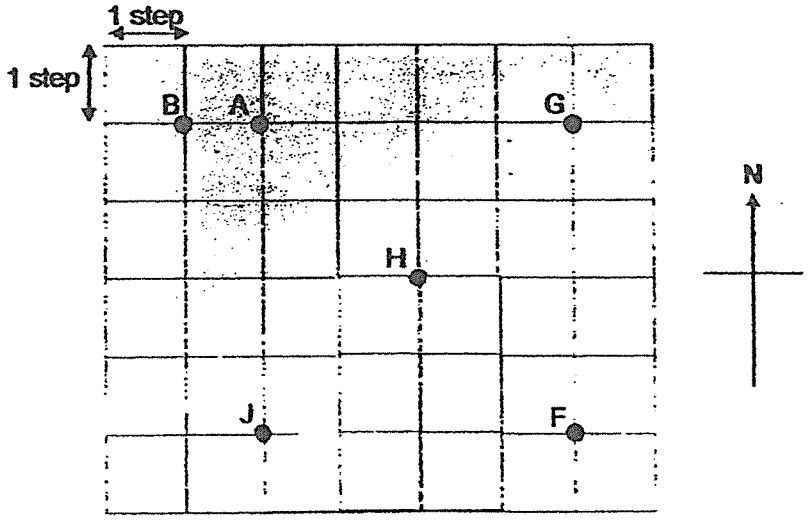
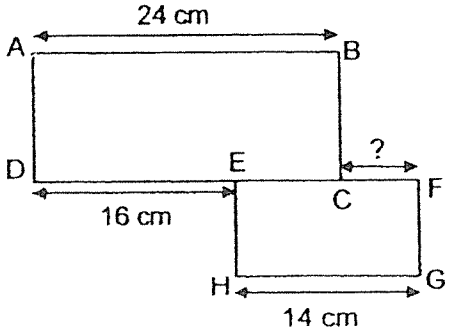


35. Jean was at one of the points shown in the grid at first. Then, she walked 1 step to the South, 2 steps to the East and 3 steps to the North. She ended up at point H. Which point was she at at first?

Ans:_____

36. The figure below is made up of two different rectangles, ABCD and EFGH. AB = 24 cm, DE = 16 cm and HG = 14 cm.
Find the length of CF.



Ans:_____cm

37. A piece of rectangular paper ABCD is folded as shown. Find ∠ECF.

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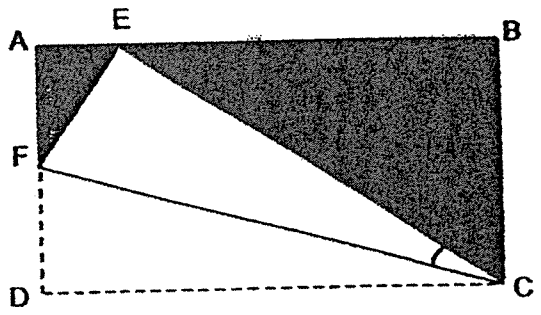

Ans: _____ °

38. Eight years ago, Alan was 4 times as old as Geetha. Their total age now is 46 years. How old was Geetha eight years ago?

Ans: _____ years old

The line graph below shows the number of pupils in an enrichment centre at the end of each year from 2014 to 2018. Study the graph and answer questions 39 and 40.

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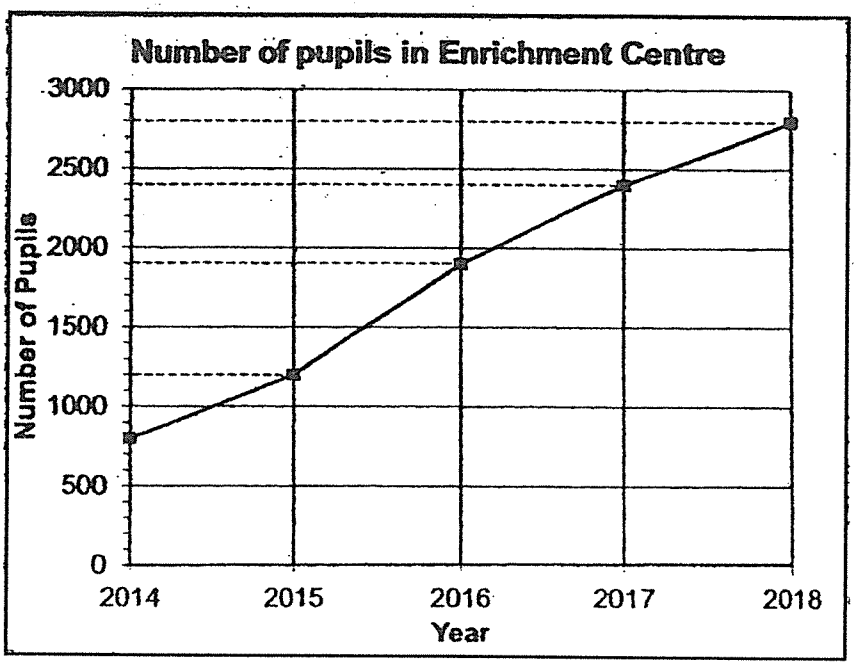

39. In which year was the number of pupils 3 times the number of pupils in 2014?

Ans: _____

40. What was the increase in number of new pupils who joined the enrichment centre between 2015 and 2016?

Ans: _____

Total marks for question 21 to 40

40

END OF SECTION B

Section C

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For Questions 41 to 45, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. All diagrams are not drawn to scale.

(20 marks)

41. Ali, Raja and Peter have 208 marbles. Peter has 27 more marbles than Ali. Raja has thrice of what Peter has. How many marbles does Ali have?

Ans: _____ [4]

(Go on to the next page)

42. Raina had a basket of 75 mangoes. She used 22 mangoes for cakes and sold some mangoes. She was left with $\frac{3}{5}$ of the number of mangoes she had at first. How many mangoes did she sell?

Do not write in this space

Ans: _____ [4]

43. A container with 5 similar books weighed 5.5 kg. The mass of the container with 3 similar books was 3.9 kg. What was the mass of the container when it was empty?
(Leave your answer in kilograms)

Do not write in this space

Ans: _____ [4]

44. A rectangular piece of paper is folded to form the shape shown below. What is the area of the rectangular piece of paper before it was folded?

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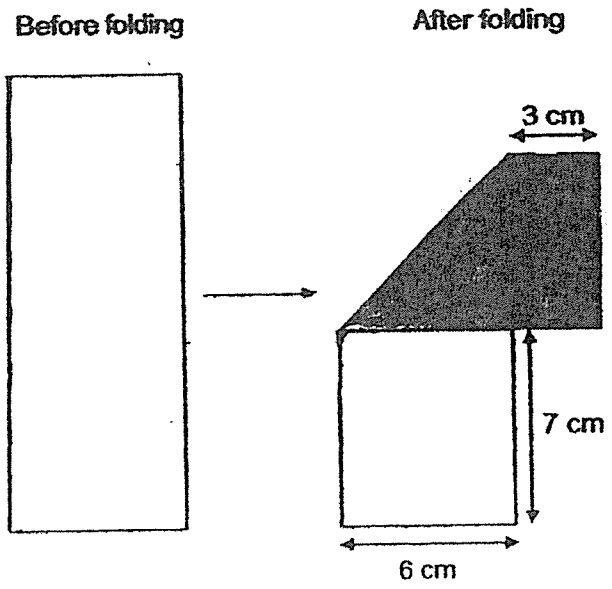

Ans: _____ [4]

45. Rectangles and circles are used to form patterns as shown in Figure 1 to Figure 3.

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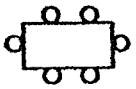


Figure 1

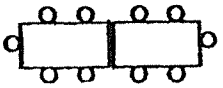


Figure 2

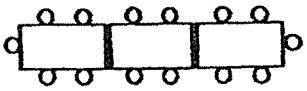


Figure 3

Figure number	Number of rectangles	Number of circles
1	1	6
2	2	10
3	3	14

a) How many rectangles are there in Figure 10?

b) How many rectangles are there in a pattern with 98 circles?

Ans: (a)_____ [1]

(b)_____ [3]

END OF PAPER

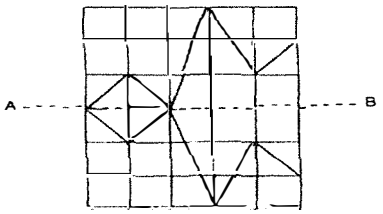
ANSWER KEY

LEVEL : PRIMARY 4
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

SECTION A

Q1	4	Q2	2	Q3	1	Q4	3	Q5	2
Q6	3	Q7	1	Q8	4	Q9	3	Q10	2
Q11	1	Q12	3	Q13	2	Q14	4	Q15	1
Q16	4	Q17	1	Q18	3	Q19	4	Q20	2

SECTION B

Q21	60 205	Q31	4055
Q22	4209	Q32	8.53 litres
Q23	6650	Q33	$\frac{25}{8}$,3.25,$3\frac{5}{6}$
Q24	$\frac{5}{12}$	Q34	
Q25	3208	Q35	J
Q26	Clinic	Q36	6cm
Q27	60	Q37	19°
Q28	8cm	Q38	6 years old
Q29	0.6	Q39	2017
Q30	$17	Q40	700

SECTION C

Q41	27×4=108 208−108=100 100÷5=20	Q42	75÷5=15 5−3=2 15×2=30 30−22=8
Q43	5.5−3.9=1.6 2 books = 1.6 1 book = 0.8 0.8 × 3 = 2.4 3.9−2.4=1.5kg	Q44	6+3=9 9+7=16 16×6=96cm^2
Q45 a)	Pattern: Increases by 1 per fig. Fig 1=1 Fig 10=10	Q45 b)	Pattern: Circles increases by 4 per fig. 98 circles=24 rectangles