Name : _____ ( )

Class : P 5 _____

24 October 2012

CATHOLIC HIGH SCHOOL

PRIMARY FIVE

END-OF-YEAR EXAMINATION 2012

MATHEMATICS

PAPER 1

(BOOKLET A)

15 questions

20 marks

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

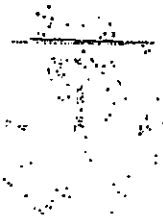
Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Shade your answers in the Optical Answer Sheet (OAS) provided.

You are not allowed to use a calculator.

Booklet A consists of page 1 to 5. Answer all questions.



Questions **1** to **10** carry 1 mark each. Questions **11** to **15** 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 correct oval on the Optical Answer Sheet. All diagrams are not drawn to scale. (20 marks)

1. $506\,888 = 500\,000 + 6000 + 800 +$ ☐

   (1) 8

   (2) 88

   (3) 888

   (4) 8888

2. The average of five numbers is 88. What is the sum of the five numbers?

   (1) 93

   (2) 352

   (3) 440

   (4) 528

3. $(68 \div 4) \times 100 =$ _____ $\div 10$.

   (1) 17

   (2) 170

   (3) 1700

   (4) 17000

4. Express $\frac{17}{25}$ as a percentage.

   (1) 0.68%

   (2) 6.8%

   (3) 68%

   (4) 680%

(Go on to the next page)

5. 10.006 g = _____ kg

(1) 10.6 kg
(2) 10.06 kg
(3) 1.006 kg
(4) 10.006 kg

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6. Find the the value of 30 tens and 30 hundredths.

(1) 30.3
(2) 300.3
(3) 300.03
(4) 3300.003

---

7. How many sixths are there in $3\frac{2}{3}$?

(1) 9
(2) 11
(3) 22
(4) 44

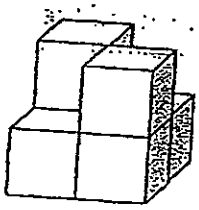
---

8. Express $2\frac{4}{5}$ as a decimal.

(1) 2.8
(2) 2.4
(3) 2.45
(4) 2.08

(Go on to the next page)

9. Some 2 cm cubes are stacked up to form the solid as shown. What is the volume of the solid?



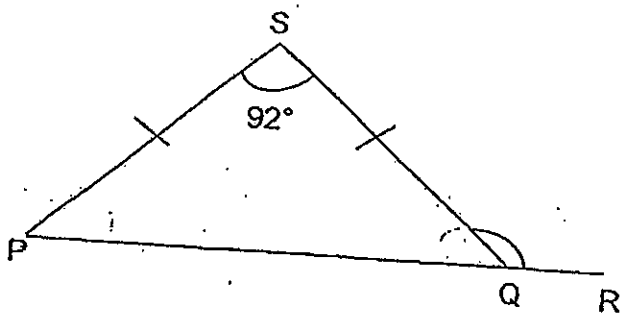
(1) 6 cm^3

(2) 8 cm^3

(3) 36 cm^3

(4) 48 cm^3

10. PQR is a straight line. Find $\angle SQR$.



(1) 44°

(2) 88°

(3) 102°

(4) 136°

(Go on to the next page)

11. Brandon bought a sack of sugar and repacked them into 8 smaller bags. He had 0.3 kg of sugar left unpacked. If the mass of each smaller bag was 2.6 kg, what was the mass of the sack of sugar that Brandon bought?

(1) 2.9 kg
(2) 21.1 kg
(3) 20.5 kg
(4) 20.3 kg

---

12. The ratio of the area of square A to the area of square B is 4 : 9. The area of square A is 64 cm^2. Find the length of square B.

(1) 8 cm
(2) 9 cm
(3) 12 cm
(4) 144 cm

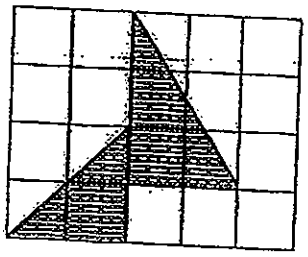
---

13. Apples are sold in bags of 4. Each bag of apples costs $6. Mrs Tan has $32. What is the maximum number of apples she can buy with her money?

(1) 5
(2) 8
(3) 20
(4) 24

(Go on to the next page)

14. The figure below is made up of 20 identical squares. What percentage of the figure is not shaded?



(1) 25%

(2) 75%

(3) 22.5%

(4) 77.5%

---

15. James bought 16 pens at 4 for $2 and 20 rulers at 5 for $1. He found that he had $10 left. How much money did he have at first?

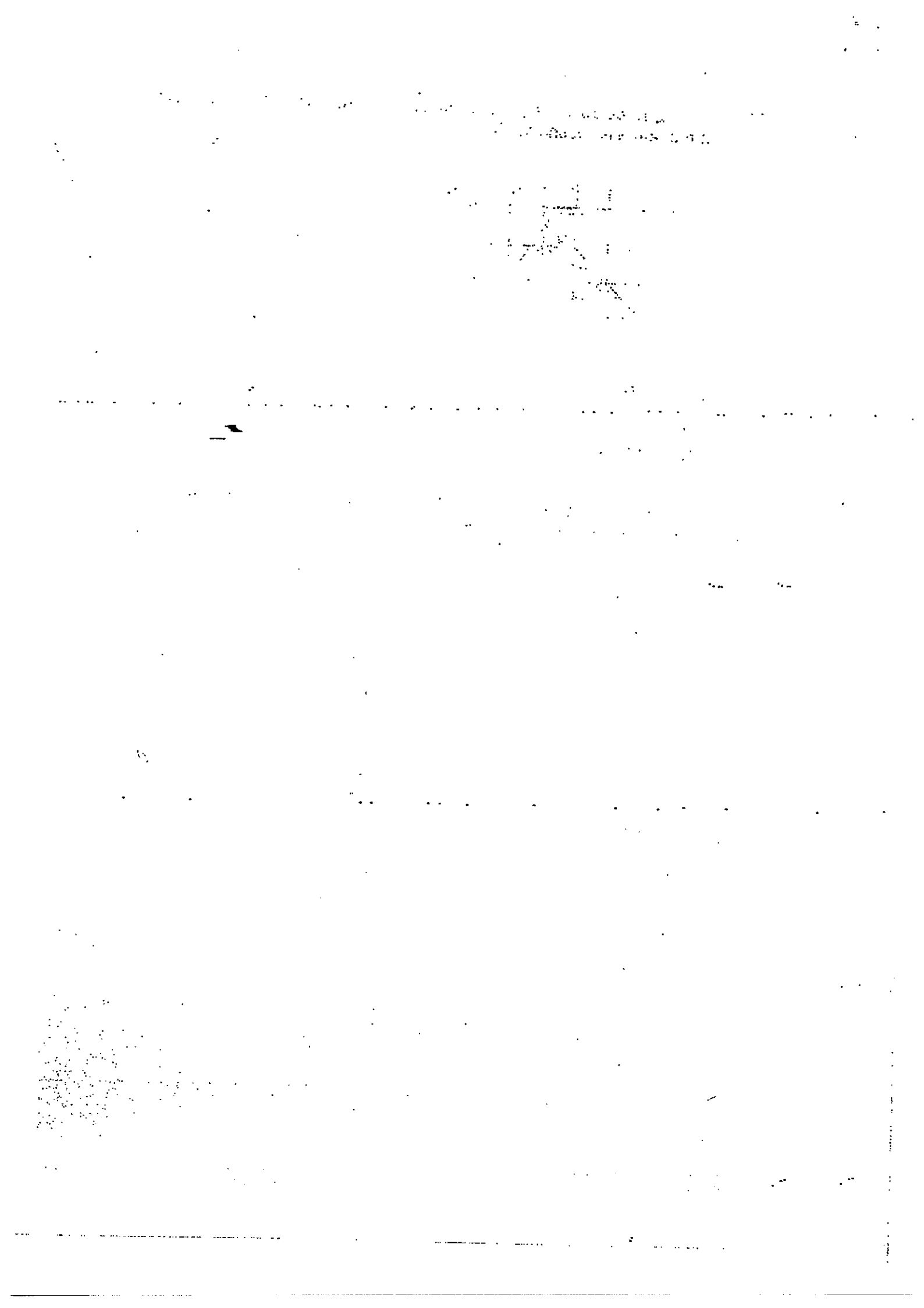
(1) $22

(2) $38

(3) $52

(4) $62

END OF BOOKLET A



Name : _____ ( ) 24 October 2012

Class : P 5 _____

CATHOLIC HIGH SCHOOL

PRIMARY FIVE

END-OF-YEAR EXAMINATION 2012

MATHEMATICS

PAPER 2

Paper 1 Booklet A	20
Paper 1 Booklet B	20
Paper 2	60
Total Marks	100

Total Time: 1 h 40 min

Parent's Signature:_____

INSTRUCTIONS TO CANDIDATES

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

Follow all instructions carefully.

Show your working clearly as marks are awarded for correct working.

Paper 2 consists of page 1 to 13. Write your answers in this booklet.

You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. All figures are not drawn to scale. For questions which require units, give your answers in the units stated. (10 marks)

Do not writ
in this spa

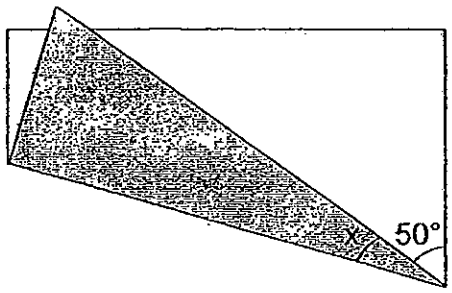
1. The table below shows the number of books read by the pupils of Primary 5 Happiness in June.

Number of books read by each pupil	0	1	2	3
Number of pupils	7	13	15	5

What is the total number of books read by the pupils in June?

Ans: _____

2. A rectangular piece of paper is folded as shown. The shaded part shows the folded part of the paper. Find $\angle x$.



Ans: _____°

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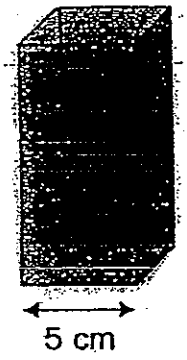
Do no in this

3. The volume of a square based cuboid is 225 cm^3. If the length of the square base is 5 cm, what is the height of the cuboid?



Ans: _____ cm

4. The charges for renting a bicycle are as follows:

First hour	$5
Additional hour or part thereof	$4

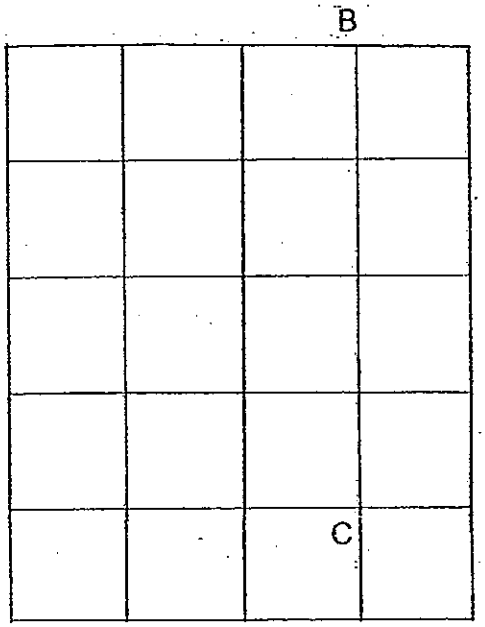
Carson rented a bicycle for 3.5 hours, How much did he pay altogether?

Ans: $_____

(Go on to the next page)

5. On the square grid given, draw a right angled triangle ABC where AB is equal to AC and $\angle CAB$ is 90°.

Do not write in this space



(Go on to the next page)

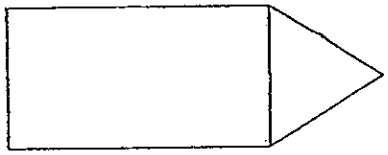
For questions **6** to **18**, show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All figures are not drawn to scale. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

Do no in this

6. Andy, Paul and Bao Luo shared 221 marbles. Andy received 25 marbles less than Paul but 35 marbles more than Bao Luo. How many marbles did Bao Luo receive?

Ans: _____ [3]

7. The figure is made up of a rectangle and an equilateral triangle. The perimeter of the figure is 45 cm. The perimeter of the rectangle is 38 cm. Find the perimeter of the triangle.

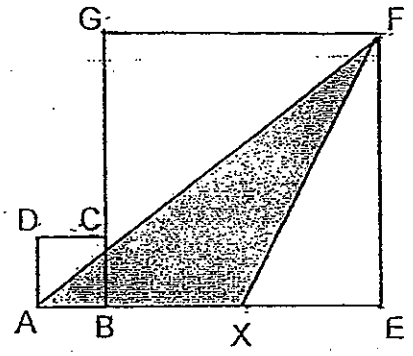


Ans: _____ [3]

(Go on to the next page)

8. The figure below is made up of 2 squares, ABCD and BEFG. The area of BEFG is 64 cm^2 and the area of ABCD is 4 cm^2. Point X is the midpoint of BE. Find the area of triangle AFX.

Do not writ in this spac



Ans: _____ [3]

9. The cost of 3 identical bowls is the same as the cost of 2 identical plates. A plate costs $1.40 more than a bowl. What is the total cost of 1 bowl and 1 plate?

Ans: _____ [3]

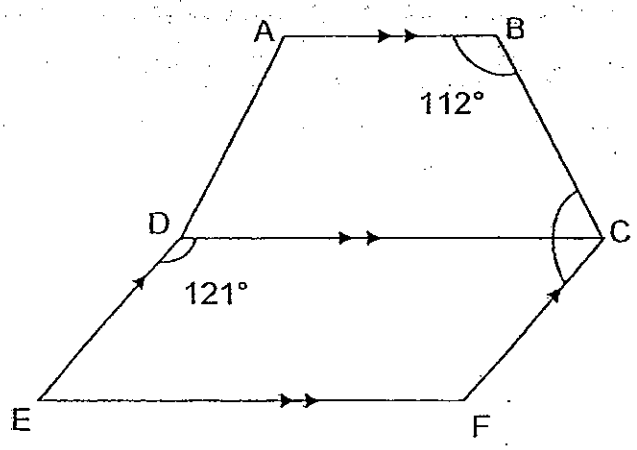
(Go on to the next page)

10. Joe is 40 years old now. 10 years ago, he was five times as old as his son. Find their average age now.

Do not in this

Ans: _____ [3]

11. The figure below is not drawn to scale. ABCD is a trapezium and CDEF is a parallelogram. Find $\angle BCF$.



Ans: _____ [3]

(Go on to the next page)

12. Bill and Ernest share some marbles. Bill had 70 marbles more than Ernest. Ernest gave 20 marbles to Bill and Bill had thrice as many marbles as Ernest. When Bill lost some marbles after that, the marbles he had in the end was 150. How many marbles did Bill lose?

Do not writ in this spac

Ans: _____ [4]

(Go on to the next page)

45

13. 3600 people were at a performance in the morning. 60% of the people were adults. The rest were children. 20% of the children and some adults left the performance in the afternoon. 50% of the remaining people were children.

Do no in this

(a) How many children left the performance in the afternoon?

(b) How many adults left the performance in the afternoon?

Ans: (a)_____ [2]

(b)_____ [2]

(Go on to the next page)

14. A rectangular tank, 120 cm long and 50 cm wide is completely filled with water. Samuel, Joseph and Peter took turns to pour out the water from the tank respectively. Samuel poured $\frac{1}{2}$ of the water out from the tank. Joseph then poured out 75% of the remaining water from the tank. Finally, Peter poured away the remaining 24 litres of water from the tank.
Find the height of the tank.

Do not write in this space

Ans: _____ [4]

15. Daniel had a total of 446 local and foreign stamps. He gave away half of the local stamps and bought another 69 foreign ones. As a result, he had twice as many local stamps as foreign stamps.

(a) How many foreign stamps did he have at first?
(b) He sold all his foreign stamps at the same price and collected $123.60. What is the selling price of each foreign stamp?

Do no in this

Ans: (a) _____ [3]

(b) _____ [2]

(Go on to the next page)

16. Shaded and unshaded squares are used to form a sequence of patterns. The first three patterns are shown below.

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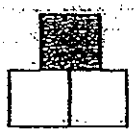
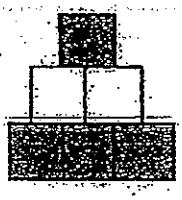
Pattern 1



Pattern 2



Pattern 3

Complete the table.

Pattern Number	Number of shaded squares	Number of unshaded squares	Total number of squares
1	1	0	1
2	1	2	3
3	4	2	6
4	(a)	(b)	(c)

[3]

(d) What is the total number of squares in pattern 20?

Ans: (d) _____ [2]

(Go on to the next page)

17. 6 mirrors and 7 combs cost \$51. A comb costs $\frac{3}{10}$ as much as 2 mirrors. Mrs Chew bought twice as many combs as mirrors for \$121. How many combs did she buy?

Do not in this

Ans: _____ [5]

(Go on to the next page)

18. A box contains some 20¢ and 50¢ coins. The ratio of the number of 20¢ coins to the number of 50¢ coins is 5 : 6. After 80 20¢ coins are removed and 15 50¢ coins are added, the ratio becomes 2 : 3. Find the sum of money in the box at first.

Do not write in this space.

Ans: _____ [5]

- End of Paper 2 -

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EXAM PAPER 2014

SCHOOL : CATHOLIC HIGH
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA2

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

16)319022 17)6503 18)4¾kg 19)64cm^2 20)45

21)73 22)109° 23)6% 24)57/200 25)1/6

26)$150 27)0.43 28)48 29)5 : 6 30)$168

Paper 2

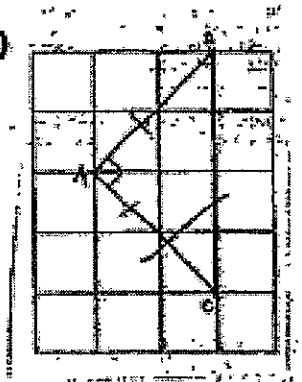
1)(0x7)+13+(2x15)+3x5) = 58

2)x→90° − 50° = 40°
∠x→40° ÷2 = 20°

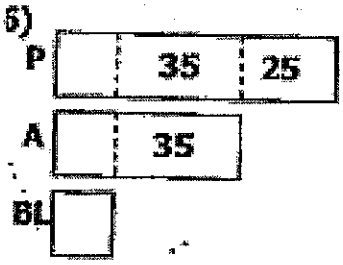
3)225÷5÷5 = 9cm

4)$17

5)



5)



3u→221 + 35 + 25 + 25 = 306
1u→306÷3 = 102
BL→102 − 35 − 25 = 42
Bao Luo receive 42 marbles.

')7 x 3 = 21cm

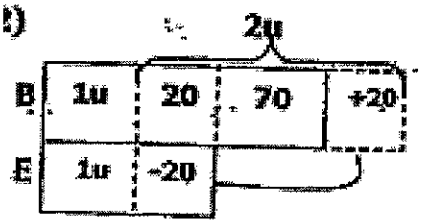
:)24cm2

)1b→1.4 x 2 = 2.8
1p→2.8 + 1.4 = 4.2
1b + 1p→2.8 + 4.2 = $7

D)10 years ago→40 − 10 = 30
Son→30÷5 = 6
Son now→6 + 10 = 16
Total→16 + 40 = 56
Average→56÷2 = 28 years ago.

L)∠BCD→180° − 112° = 68°
∠FCD→180° − 121° = 59°
∠BCF→59° + 68° = 127°

!)



2u→20 + 70 + 20 = 110
1u→110÷2 = 55
3u→55 x 3 = 165
Lose→165 − 150 = 15 marbles

13)a)total
10%-->3600÷10 = 360
C→100 – 60 = 40
40%-->360 x 4 = 1440
20%-->1440÷5 = 288
b)Total
60%-->360 x 6 = 2160
80%-->288 x 4 = 1152
1152 = 50% left
Adult left→2160 – 1152 = 1008

14)25%R→24L
100%-->24 x 4 = 96
96L→ ½
Total water→96 x 2 = 192
mL→192000
H→192000÷120÷50 = 32cm

15)a)5u→446 + 69 = 515
1u→515÷5 = 103
F at first→103 – 69 = 34
b)$123.60 = 103 stamps
1 F stamp→123.60÷103 = $1.20

16)a)4 b)6 c)10 d)210

17)22

18)$360