

**Anglo-Chinese School
(Junior)**



**SEMESTRAL ASSESSMENT 1 (2015)
PRIMARY 5**

MATHEMATICS

**PAPER 1
Booklet A**

Wednesday

6 May 2015

50 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are not allowed to use a calculator.

Name : _____ ()

Class : 5.()

Parent's Signature: _____

This question paper consists of 8 printed pages. (Inclusive of cover page)

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 (1, 2, 3 or 4) on the
Optical Answer Sheet (OAS). (20 marks)

1. Which set of numbers is arranged from the greatest to the smallest?

- 1) 30 000, 31 000, 32 000, 33 000
- 2) 912 000, 911 000, 910 000, 990 000
- 3) 400 080, 408 000, 480 000, 400 800
- 4) 513 900, 512 900, 501 900, 500 900

2. Estimate the sum of 9 287 and 9 503 by first rounding off each number to the nearest thousand.

- 1) 18 000
- 2) 18 800
- 3) 19 000
- 4) 20 000

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

- 1) 7
- 2) 8
- 3) 12
- 4) 24

4. Find the value of $\frac{3}{4} + \frac{2}{5}$.

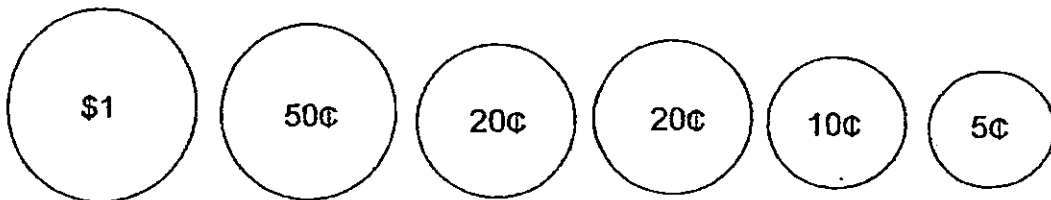
1) $\frac{5}{9}$

2) $\frac{7}{20}$

3) $1\frac{3}{20}$

4) $2\frac{3}{20}$

5. Siti had the following coins in her coin pouch.



She took out only 3 coins from her pouch and placed them into a donation can. Which of the following amounts could be the amount taken out of her pouch?

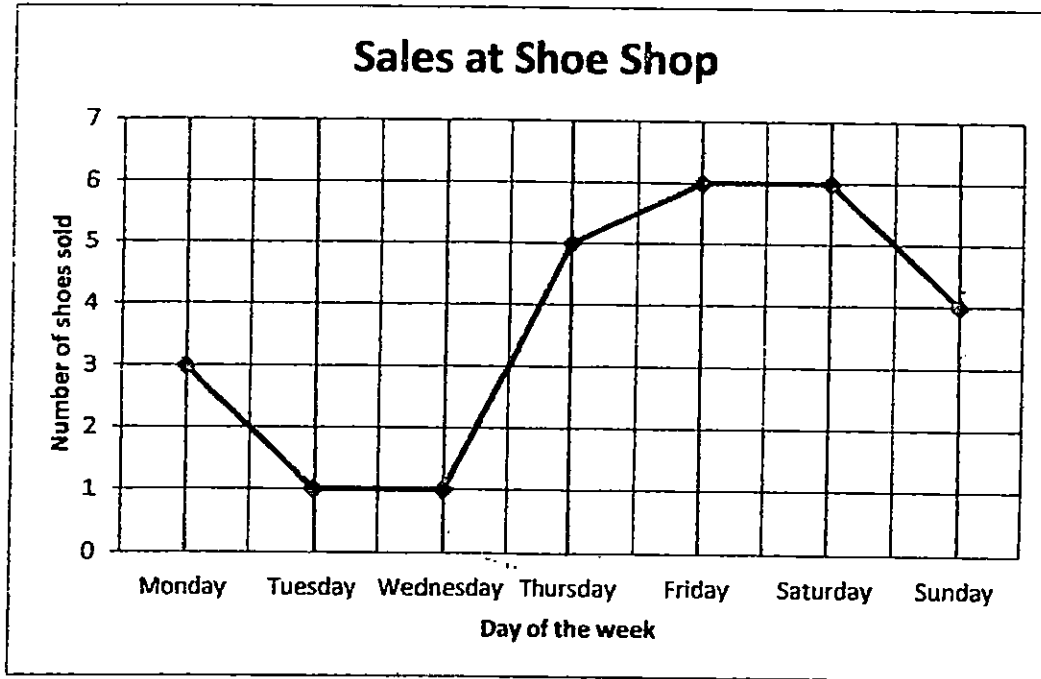
1) \$ 0.70

2) \$ 0.85

3) \$ 1.25

4) \$ 1.50

6. The graph below shows the number of pairs of shoes sold after lunch time at a shoe



What is the total number of pairs of shoes sold from Tuesday to Friday?

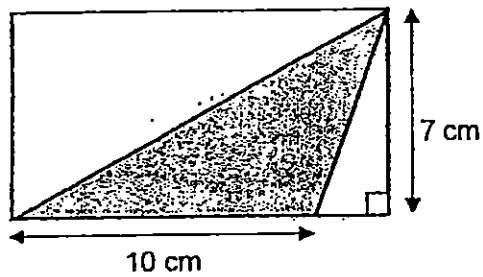
- 1) 1
- 2) 6
- 3) 12
- 4) 13

7. There are 30 pupils in a class. 18 of them wear spectacles. Find the ratio of the number of pupils who do not wear spectacles to the total number of pupils.

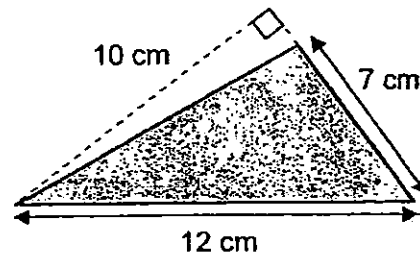
- 1) 2 : 3
- 2) 2 : 5
- 3) 3 : 2
- 4) 3 : 5

8. The following shaded triangles are not drawn to scale. Which triangle has an area of 42 cm^2 ?

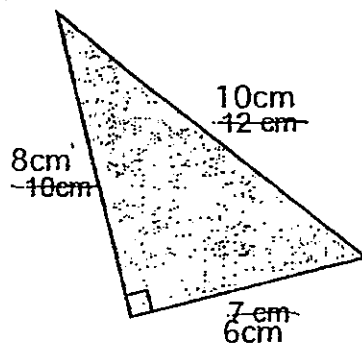
1)



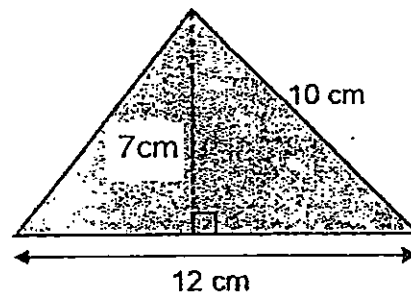
2)



3)



4)

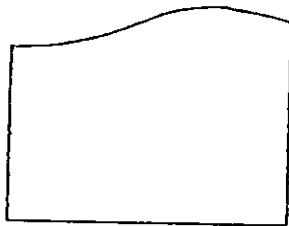


9. The ratio of Faizal's age to Elijah's age is $2 : 3$. Elijah is 15 years old. What is Faizal's age?

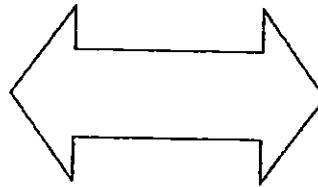
- 1) 5
- 2) 10
- 3) 12
- 4) 20

10. Below are some figures. Which one is symmetrical?

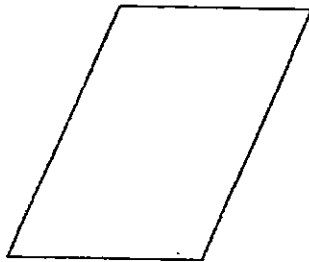
1)



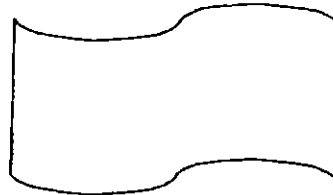
2)



3)



4)



11. Complete the number pattern below.

5 678, 4 567, 3 456, _____, 1 234

1) 2 345

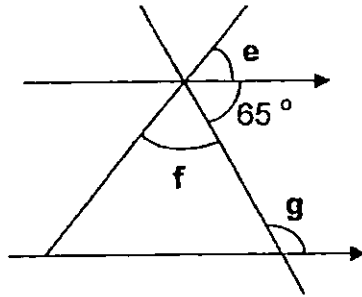
2) 2 456

3) 3 567

4) 4 567

12. The ratio of the perimeters of two squares is 3 : 5. The perimeter of the larger square is 40cm. What is the length of one side of the smaller square?
- 1) 2 cm
 - 2) 6 cm
 - 3) 8 cm
 - 4) 30 cm
13. Trey bought a total of 20 plates and cups. Each cup cost \$3. Each plate cost 3 times as much as a cup. He spent \$108 on the plates and cups. How many plates did he buy?
- 1) 4
 - 2) 8
 - 3) 12
 - 4) 16
14. $\frac{1}{3}$ of the beads in a box are red. $\frac{1}{6}$ of the remainder are yellow beads and the rest are blue beads. What fraction of the beads are blue?
- 1) $\frac{1}{2}$
 - 2) $\frac{1}{9}$
 - 3) $\frac{5}{9}$
 - 4) $\frac{7}{18}$

15. Find the sum of $\angle e + \angle f + \angle g$.



- 1) 115°
- 2) 230°
- 3) 250°
- 4) 295°

End of Booklet A

Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 1 (2015) PRIMARY 5

MATHEMATICS

PAPER 1
Booklet B

Wednesday

6 May 2015

50 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are not allowed to use a calculator.

Name : _____ ()

Class : 5.1

Booklet / Paper	Possible Marks	Marks Obtained
Total	20	

Parent's Signature: _____

This question paper consists of 8 printed pages. (Inclusive of cover page)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. Find the value of $103 + 35 - 20 \div (10 \times 2)$.

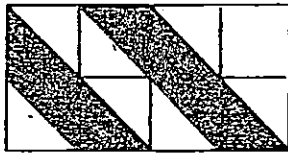
Answer: _____

17. Find the number in the blank.

$$36\,000 \div 40 = \underline{\hspace{2cm}} \times 3$$

Answer: _____

18. What fraction of the figure is unshaded?



Answer: _____

19. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{2} + \frac{1}{2} = \square \times \frac{1}{4}$

What is the missing value in the box?

Answer: _____

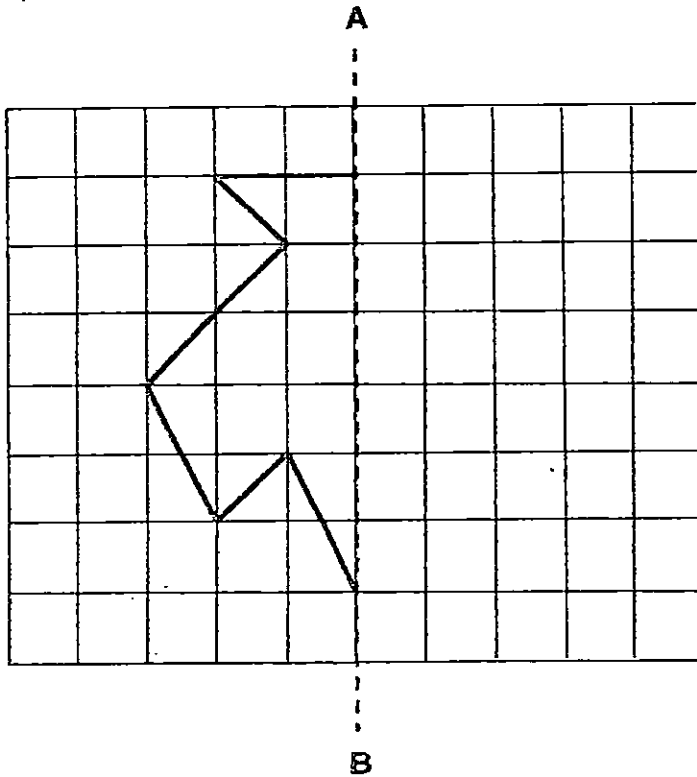
20. The rates for phone calls are shown below.

First 1 minute	\$0.05 per minute
Subsequent minute or part thereof	\$0.10 per minute

Xavier made a phone call that lasted 2 minutes and 5 seconds. How much did he pay for the phone call?

Answer: \$ _____

21. The figure below shows $\frac{1}{2}$ of a symmetric figure along the line of symmetry, AB. Complete the symmetric figure.



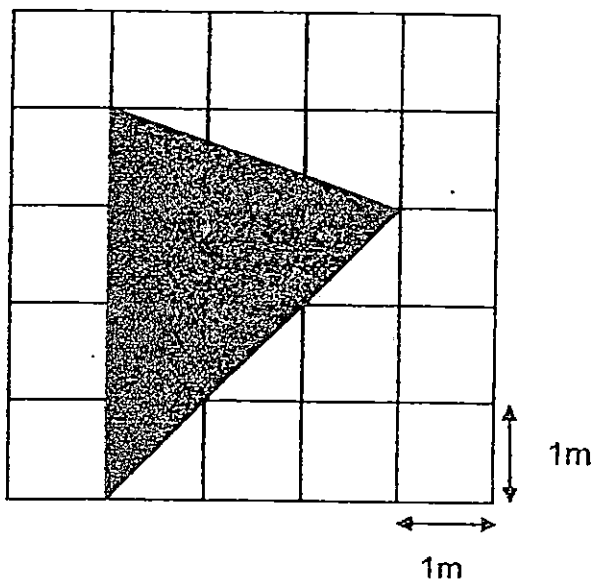
22. The partial timetable below shows the start times and end times of class periods. All lessons are of the same duration except recess.

School Time Table		
Class Period	Start Time	End Time
Second	0825	0915
Third	0915	1005
Recess	1005	1040
Fourth	1040	1130
Fifth	1130	?

What is the missing end time for the fifth period?
(Give your answer in the 24-hour clock format.)

Answer: _____

23. Find the area of the shaded part in the square grid below.



Answer: _____ m²

- 24: Danial and Rashidah shared the cost of a sofa in the ratio 2 : 7. Rashidah paid \$240 more than Danial. Find the cost of the sofa.

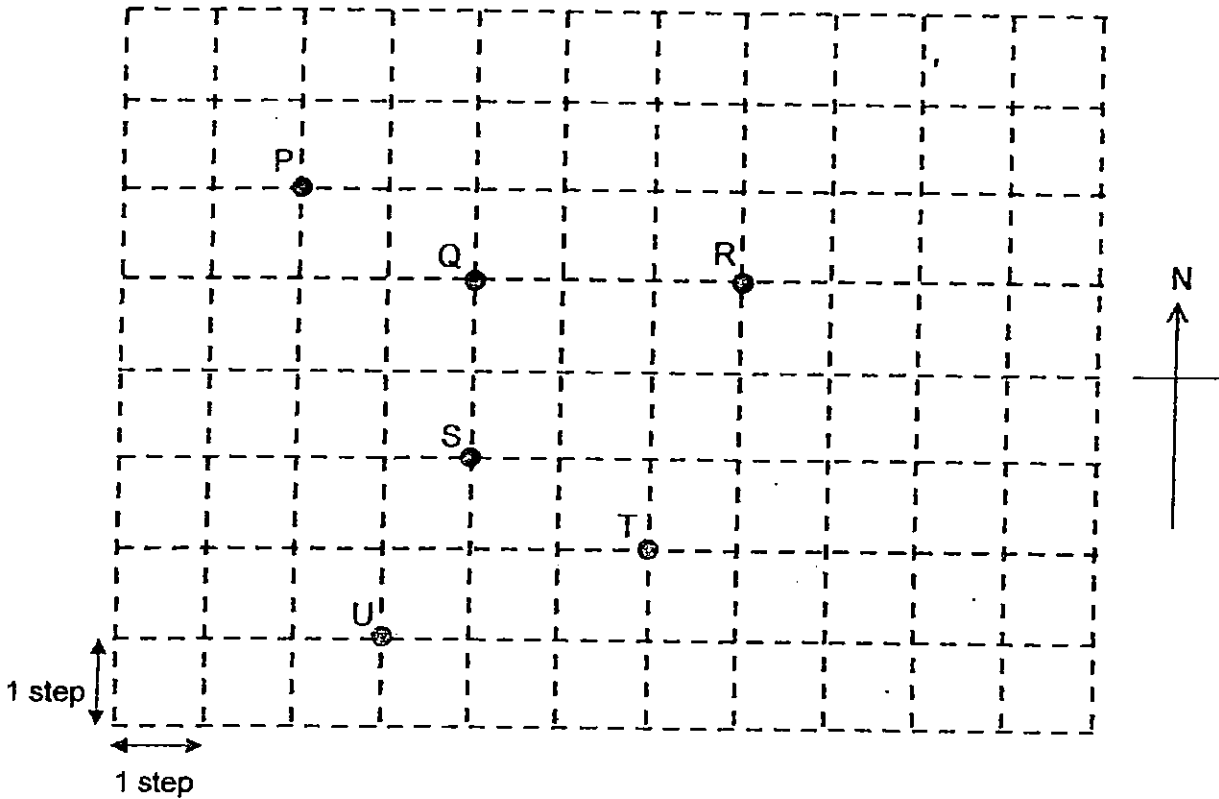
Answer: \$ _____

25. Azman scored a total of 156 marks for his English and Mathematics papers. The ratio of his English score to his Mathematics score was 8 : 5. What was his Mathematics score?

Answer: _____

Questions 26 to 30 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. (10 marks)

26. Study the diagram and answer questions (a) and (b).



(a) Point _____ is south-west of Point _____.

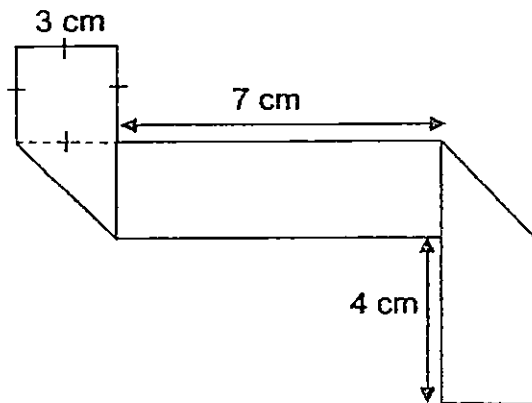
(b) Wayne was at a certain point. He walked 2 steps to the south, 3 steps to the west, 5 steps to the north and 1 step to the east. He ended at Point P. What was his starting point?

Answer: _

27. Christopher and Zachariah had an equal amount of money. After Christopher spent \$200 and Zachariah spent \$400, Christopher had three times as much money as Zachariah. How much money did each boy have at first?

Answer: \$ _____

28. A rectangular strip of paper is folded as shown below. What is the perimeter of the rectangular strip of paper when it is unfolded?

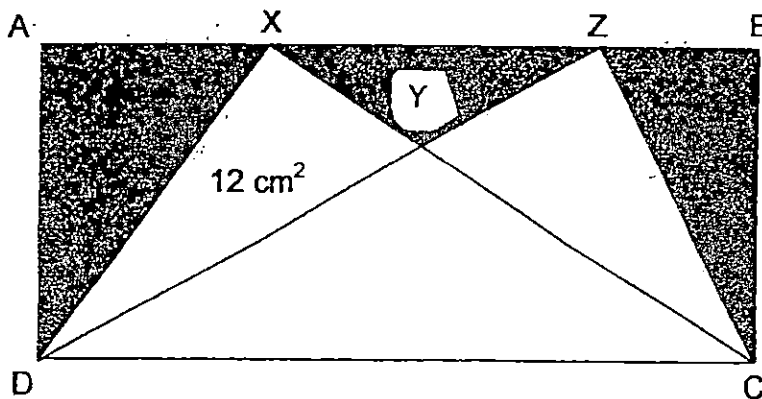


Answer: _____ cm

29. When $\frac{1}{3}$ of a number is increased by 18, the result is 46.
Find the number.

Answer: _____

30. The area of the rectangle ABCD below is 180 cm^2 .
The area of the triangle XDY is 12 cm^2 .
Find the total shaded area of the rectangle.



Answer: _____ cm^2

End of Booklet B

Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 1 (2015) PRIMARY 5

MATHEMATICS

PAPER 2

Wednesday

6 May 2015

1 hr 40 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.

There are 18 questions in this booklet.

Answer ALL questions.

You are allowed to use a calculator.

Name : _____

Class : 5.()

Parent's Signature: _____

Booklet / Paper	Possible Marks	Marks Obtained
Booklet A	20	
Booklet B	20	
Paper 2	60	
Total	100	

This question paper consists of 14 printed pages. (Inclusive of cover page)

Questions 1 to 5 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. (10 marks)

1. For every \$1 that Victor saves, Navin saves \$2. Given that Victor saves \$8, how much money have the two boys saved altogether?

Answer : \$ _____

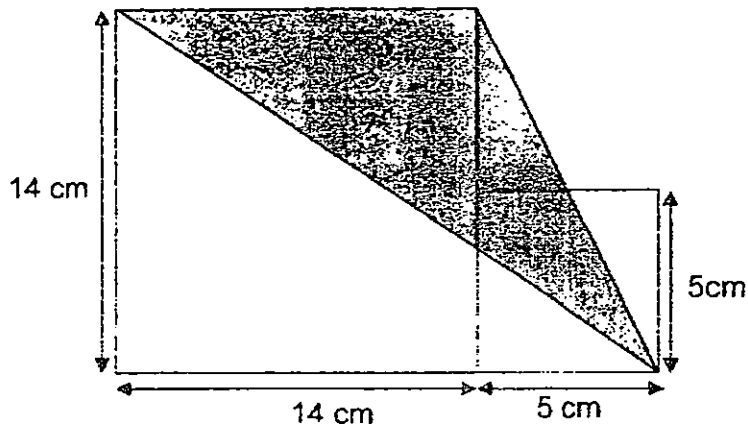
2. $\frac{2}{3}$ of Amin's age is equal to $\frac{1}{4}$ of Bernard's age. Their total age is 77 years old. How old is Bernard?

Answer: _____

3. Mrs Sim baked 240 cookies and Mrs Tan baked 100 cookies. After they each gave away an equal number of cookies, Mrs Sim had three times as many cookies left as Mrs Tan. How many cookies did Mrs Sim give away?

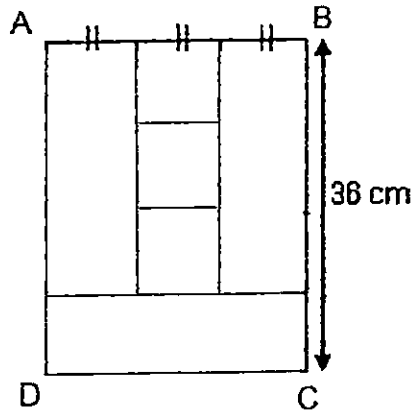
Answer: _____

4. Find the shaded area of the figure below.



Answer : _____ cm²

5. The figure below, rectangle ABCD is made up of 3 identical rectangles and 3 identical squares. BC is 36 cm. Find the perimeter of rectangle ABCD.



Answer: _____ cm

For Questions 6 to 18, show your working clearly question 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. (50 marks)

6. Guo Xing had \$106 and Hansel had \$68. Guo Xing then gave Hansel \$12. What was the ratio of the amount of money Guo Xing had to the amount of money Hansel had in the end? Give your answer in the simplest form.

Answer : _____ [3]

7. Janice made a certain number of egg tarts. She gave $\frac{1}{4}$ of the egg tarts to her relatives and $\frac{4}{9}$ of the remainder to her neighbours. She was left with 70 egg tarts. How many egg tarts did she make at first?

Answer : _____ [3]

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8. Ali has 2 times as many marbles as Bala. Bala has 3 times as many marbles as Cameron. Ali has 1320 more marbles than Cameron. How many marbles does Bala have?

Answer: _____ [3]

9. The table shows the entrance fee to Amazing Museum.

Adults	\$10
Children	\$5
Senior Citizens	\$8

What is the total entrance fee for a tour group of 2 senior citizens, 12 adults and 4 children?

Answer: _____ [3]

10. Jacob earns \$500 more than Derek each month. They each spend \$1000 a month and save the rest. Jacob does not have any savings at first. After 5 months, he has \$10 000 in savings. How much money does Derek earn a month?

Answer: _____ [3]

11. On Jervaine Street, there are 27 poles from one end to the other end of the street at equal distances apart. The width of each pole is 15 cm. The distance between 2 poles is 8 m. Find the length of Jervaine Street. Give your answer in metres.

Answer : _____ [4]

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12. Kenneth bought some packets of stamps. There were 8 stamps in each packet. For a carnival, Kenneth was given another 4 more stamps by his brother and he repacked all the stamps into smaller packets. There are now exactly 6 stamps in each packet and 22 more packets than before. How many stamps did Kenneth buy?

Answer : _____ [4]

13. Mr Lim had a total of 294 chocolate cakes and vanilla cakes. The ratio of the number of chocolate cakes to the number of vanilla cakes was 5 : 16.

- (a) How many vanilla cakes did Mr Lim have?
- (b) After he sold a number of vanilla cakes, the number of vanilla cakes left was twice the number of chocolate cakes. How many vanilla cakes did he sell?

Answer : (a) _____ [1]

(b) _____ [3]

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14. On a Friday at the National Library, $\frac{1}{3}$ of the visitors borrowed only 1 book each, $\frac{5}{12}$ of the visitors borrowed 2 books each and $\frac{1}{6}$ of the visitors borrowed 3 books each. The rest of the visitors did not borrow any books. A total of 1560 books were borrowed that day.

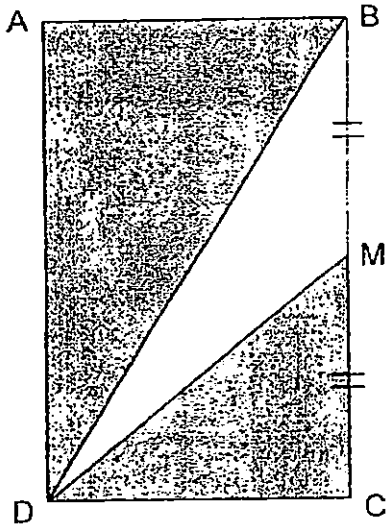
- (a) What fraction of the visitors did not borrow any books?
- (b) How many visitors did not borrow any books from the National Library?

Answer : (a) _____ [1]

(b) _____ [3]

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15. Rectangle ABCD has a perimeter of 96 cm. The length of BC is twice that of AB. $BM = MC$.
- (a) Find the length AB.
- (b) Find the area of triangle DBM.



Answer : (a) _____ [2]

(b) _____ [2]

16. Simon and Torez participated in a Maths Quiz. There were 50 questions in the Maths Quiz. For every correctly answered question, 3 points were awarded. For every incorrect answer, 1 point was deducted. Simon and Torez scored a total of 204 points by each attempting 50 questions in the Maths quiz. Simon scored 24 more points than Torez.

- (a) How many points did Simon score?
- (b) How many questions did Simon answer correctly?

Answer : (a) _____ [2]

(b) _____ [3]

--

17. Mabel and Jason baked some pastries consisting of croissants and apple pies. They baked 60 more croissants than apple pies in total. Mabel baked $\frac{3}{4}$ of the croissants and $\frac{1}{2}$ of the apple pies. She baked 120 more pastries than Jason. How many croissants and apple pies did Jason bake altogether?

Answer : _____ [5]

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18. Mr Toh had some money. He spent $\frac{4}{7}$ of it on 8 similar notebooks. With his remaining money, he bought another 5 such notebooks and 8 pens.

- (a) What fraction of his money was spent on buying 8 pens?
Give your answer in its simplest form.
- (b) During a sale, Mr Toh would be given 1 free pen for every 9 pens bought. How many pens would he get altogether if he had spent all his money on pens at first?

Answer : (a) _____ [2]

(b) _____ [3]

End of Paper 2

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LEVEL : PRIMARY 5
 SCHOOL : ANGLO – CHINESE SCHOOL (JUNIOR)
 SUBJECT : MATHS
 TERM : SA1

PAPER ONE – BOOKLET A

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

PAPER ONE – BOOKLET B

Q16.

$$103 + 35 - 20 \div 20$$

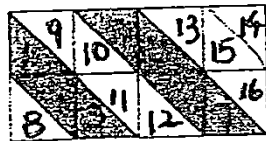
$$= 103 + 35 - 1$$

$$= 103 + 34 = 137$$

ANS: 137

Q17. ANS: 300

Q18. SEE PICTURE



ANS: $\frac{9}{16}$

Q19.

$$\frac{2}{4} + \frac{2}{4} + 1$$

$$1 + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1\frac{3}{4} = \frac{7}{4}$$

$$\frac{7}{4} \div \frac{1}{4} = 7$$

ANS: 7

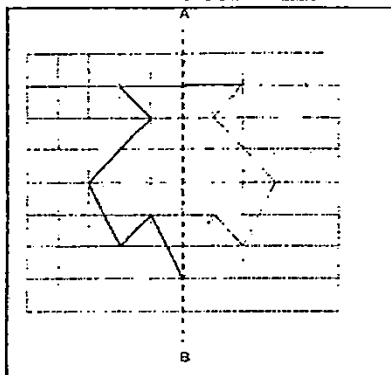
Q20.

1 min → 5¢

Next 1 min and 5 sec → 20¢

ANS: \$0.25

Q21. SEE PICTURE



Q22. SEE PICTURE

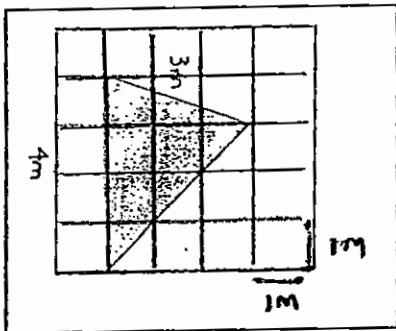
ANS : 1220

School Time Table			
Class Period	Start Time		End Time
Second	0825	+50min	0915
Third	0915	+50min	1005
Recess	1005	+35min	1040
Fourth	1040	+50min	1130
Fifth	1130	+50min	?

Q23. SEE PICTURE

$$\frac{1}{2} \times 4 \times 3 = 6$$

ANS : 6m²



Q24.

$$\$240 \div (7 - 2) = \$48$$

$$\$48 \times (7 + 2) = \$432$$

ANS : \$432

Q25.

$$13U \rightarrow 156$$

$$1U \rightarrow 156 \div 13 = 12$$

$$5U \rightarrow 5 \times 12 = 60$$

ANS : 60 marks

Q26. a) Point U is south - west of Point R.

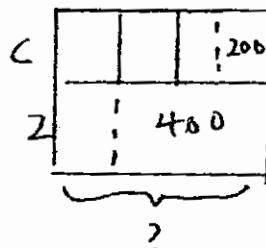
Q26. b) ANS : Point S

Q27. SEE PICTURE

$$2U \rightarrow 400 - 200 = 200$$

$$1U \rightarrow 200 \div 2 = 100$$

$$B \quad 100 + 400 = 500$$

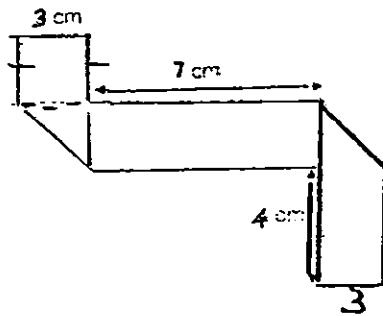


Q28. SEE PICTURE

$$8 + 3 = 24$$

$$7 \times 2 = 14$$

$$4 \times 2 = 8$$



Q29.

$$46 - 18 = 28$$

$$28 \times 3 = 84$$

ANS: 84

Q30.

$$\Delta DXC = 12$$

$$\Delta DZC = \frac{1}{2} \times 180 = 90$$

$$180 - 90 = 90$$

ANS: 90 cm²

PAPER 2

Q1.

$$8 \times 2 = 16, 16 + 8 = 24$$

ANS: \$24

Q2.

$$1U \rightarrow 77 \div 11 = 7$$

$$8U \rightarrow 8 \times 7 = 56$$

ANS: 56 years old

Q3.

$$2U \rightarrow 240 - 100 = 140$$

$$1U \rightarrow 140 \div 2 = 70$$

$$3U \rightarrow 3 \times 70 = 210$$

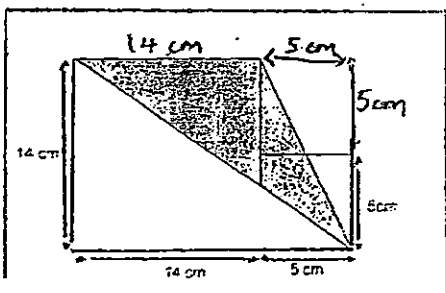
$$GA \rightarrow 249 - 210 = 30$$

ANS: 30 COOKIES

Q4. SEE PICTURE

$$\frac{1}{2} \times 14 \times 14 = 98$$

ANS: 98cm²



Q5. SEE PICTURE

$$36 \div 4 = 9$$

$$9 \times 3 = 27$$

$$27 \times 2 = 54$$

$$36 \times 2 = 72$$

$$72 + 54 = 126 \quad \text{ANS: } 126\text{cm.}$$

Q6. $106 - 12 = 94$

$$68 + 12 = 80$$

$$94 : 80$$

$$47 : 40$$

$$\text{ANS: } 47.40$$

Q7. SEE PICTURE

$$5U \rightarrow 70$$

$$1U \rightarrow 70 \div 5 = 14$$

$$12U \rightarrow 12 \times 14 = 168 \quad \text{ANS: } 168 \text{ egg tarts.}$$

Q8. SEE PICTURE

$$5U \rightarrow 1320$$

$$1U \rightarrow 1320 \div 5 = 264$$

$$3U \rightarrow 3 \times 264 = 792 \quad \text{ANS: } 792 \text{ marbles}$$

Q9.

$$2 \times 8 = 16 \text{ (Senior citizens)}$$

$$12 \times 10 = 120 \text{ (Adults)}$$

$$4 \times 5 = 20 \text{ (Children)}$$

$$20 + 16 + 120 = 156$$

$$\text{ANS: } \$156$$

Q10.

$$10,000 \div 5 = 2,000$$

$$2,000 + 1,000 = 3,000$$

$$3,000 - 500 = 2,500 \quad \text{ANS: } \$2,500.$$

Q11.

$$\text{Number of gaps} \rightarrow 27 - 1 = 26$$

$$26 \text{ gaps} \rightarrow 26 \times 8 = 208\text{m}$$

$$27 \text{ poles} \rightarrow 27 \times 0.15 = 4.05$$

$$208\text{m} + 4.05\text{m} = 212.05\text{m}$$

$$\text{ANS: } 212.05\text{m}$$

Q12. SEE PICTURE

$$\text{ANS: } 512$$

8P	6P	Total	check
64×8 $= 512$	516	4	✓

8 each $\rightarrow 2 \text{ more P}$
 6 each 4 more.

Q13.a.

$16 + 5 = 21$

$21U \rightarrow 294$

$1U \rightarrow 294 \div 21 = 14$

$15U \rightarrow 16 \times 14 = 224$

Q13B.

$16 - 6 = 10$

$6U \rightarrow 6 \times 14 = 84$

ANS: a) 224 vanilla cakes b) 84 vanilla cakes.

Q14a.

$1 - \frac{1}{3} - \frac{5}{12} - \frac{1}{6} = \frac{1}{12}$

Q14b.

$2 \times 5 = 10$

$6 + 4 = 10$

$10 + 10 = 20$

$1560 \div 20 = 78$

ANS: a) $\frac{1}{12}$ b. 78

Q15 SEE PICTURE

a)

$6U \rightarrow 96$

$1U \rightarrow 96 \div 6 = 16$

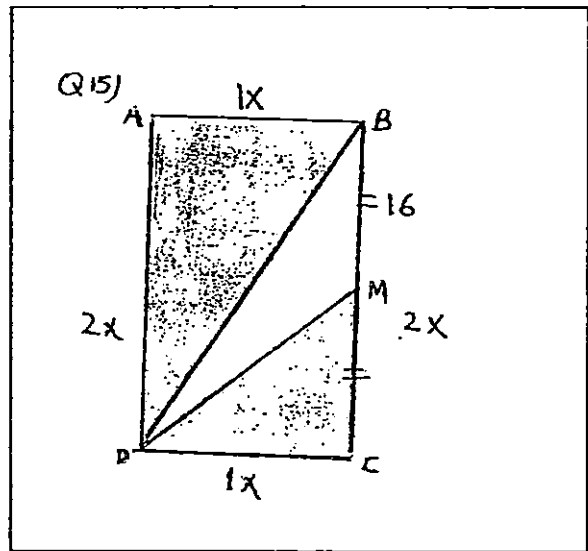
b)

$16 \times 2 = 32$

$32 \div 2 = 16$

$\frac{1}{2} \times 16 \times 16 = 128$

ANS: a) 16cm b) 128cm²



Q16A.

$2U \rightarrow 204 - 24 = 180$

$1U \rightarrow 180 \div 2 = 90$

$S \rightarrow 90 + 24 = 114$

Q16b. SEE PICTURE

16 b)

C (+3)	IC (-1)		50Q	1x
$25 \times 3 = 75$	$25 \times 1 = 25$	114 pants	50Q	X
$35 \times 3 = 105$	$35 \times 1 = 35$	50p	50Q	X
$45 \times 3 = 135$	$45 \times 1 = 45$	130p	50Q	X
$40 \times 3 = 120$	$40 \times 1 = 40$	110p	50Q	X
$41 \times 3 = 123$	$41 \times 1 = 41$	114p	50Q	✓

Q17. SEE PICTURE

$$2U \rightarrow 120$$

$$1U \rightarrow 120 \div 2 = 60$$

$$4U \rightarrow 4 \times 60 = 240$$

$$240 - 60 = 180$$

$$180 \div 2 = 90$$

$$J \rightarrow 90 + 60 = 150$$

ANS: 150 Croissants and apple pies.

Q18a.

$$\frac{4}{7} \div 8 = \frac{1}{14}, \quad \frac{4}{7} = \frac{8}{14}, \quad 8 + 5 = 13, \quad 1 - \frac{13}{14} = \frac{1}{14}$$

Q18b.

$$1U \rightarrow 8 \text{ PEARS}$$

$$14U \rightarrow 14 \times 8 = 112$$

$$112 \div 9 = 12$$

12 sets of 9 pears

$$112 + 12 = 124$$

ANS: a. $\frac{1}{14}$ of his money b. 124 pens

THE END