

# Anglo-Chinese School (Junior)



## END-OF-YEAR EXAMINATION (2023)

### PRIMARY 4 MATHEMATICS Booklet A

31 October 2023

**Total Time for Booklet A and Booklet B : 1 hour 45 minutes**

Name: \_\_\_\_\_ ( ) Class: 4.( )

#### **INSTRUCTIONS TO CANDIDATES**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
5. The use of calculators is **NOT** allowed.

**This booklet consists of 8 printed pages.**

## **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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (40 marks)

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1. In which of the following numbers does the digit 3 stand for 300?

- 1) 6903
- 2) 9630
- 3) 3690
- 4) 9360

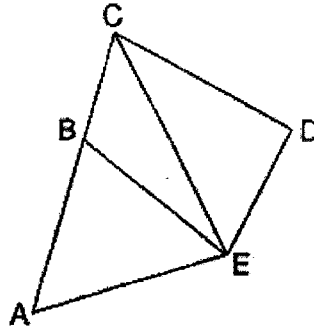
2. Which of the following is not an equivalent fraction of  $\frac{1}{4}$ ?

- 1)  $\frac{2}{8}$
- 2)  $\frac{3}{12}$
- 3)  $\frac{5}{16}$
- 4)  $\frac{6}{24}$

3. Which of the following decimals is the greatest?

- 1) 0.357
- 2) 0.324
- 3) 0.068
- 4) 0.199

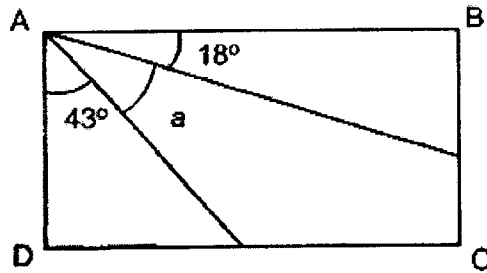
4. In the figure, which two lines below are perpendicular?



- 1) AB and BE
  - 2) BE and CB
  - 3) BE and CD
  - 4) DE and CD
5. Which of the following numbers when rounded to the nearest ten becomes 72 400?
- 1) 72 349
  - 2) 72 396
  - 3) 72 405
  - 4) 72 443
6. Express 0.05 as a fraction in its simplest form.

- 1)  $\frac{1}{20}$
- 2)  $\frac{1}{2}$
- 3)  $\frac{1}{10}$
- 4)  $\frac{1}{5}$

7. In the figure, ABCD is a rectangle. Find  $\angle a$ .



- 1)  $29^\circ$
  - 2)  $39^\circ$
  - 3)  $61^\circ$
  - 4)  $72^\circ$
8. The table shows the number of pets kept by a group of children.

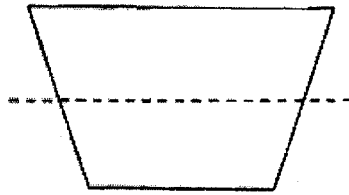
Number of pets	0	1	2	3	4
Number of children	10	17	5	8	2

How many children have more than 1 pet?

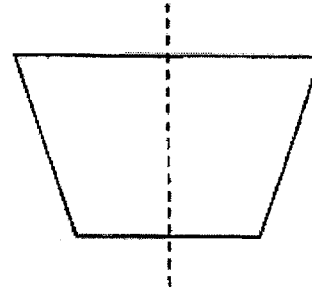
- 1) 32
  - 2) 27
  - 3) 17
  - 4) 15
9. A flight took off from Singapore at 22 50 and arrived in Taiwan at 04 05 the next day. How long was the flight?
- 1) 5 h 15 min
  - 2) 5 h 55 min
  - 3) 6 h 15 min
  - 4) 6 h 55 min

10. Which of the dotted line is a line of symmetry?

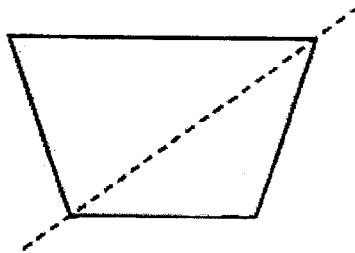
1)



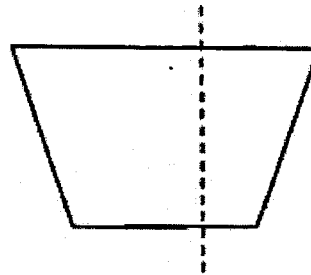
2)



3)



4)



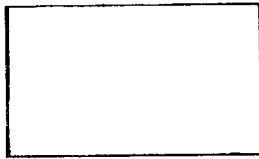
11. The table below shows the number of students in 3 CCAs in a class. Each student is in one CCA only.

CCA	No. of students
Badminton	15
Swimming	5
Tennis	?

There are 38 students in the class. How many students are in Tennis CCA?

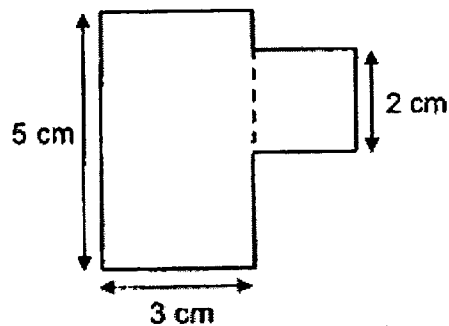
- 1) 18
- 2) 20
- 3) 23
- 4) 33

12. Which of the following statements about a rectangle is **not** correct?



- 1) All angles in a rectangle are equal.
- 2) Opposite sides of a rectangle are equal in length.
- 3) There is only one pair of parallel lines in a rectangle.
- 4) There are 4 pairs of perpendicular lines in a rectangle.

13. The figure is made up of a square and a rectangle. What is the perimeter of the figure?



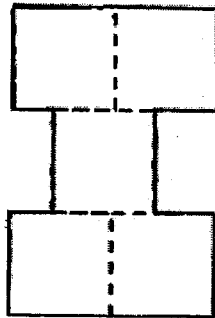
- 1) 16 cm
  - 2) 19 cm
  - 3) 20 cm
  - 4) 22 cm
14. I am a multiple of 4. When 5 is added to me, I am a multiple of 7. What number am I?

- 1) 16
- 2) 28
- 3) 32
- 4) 36

15. There were 460 children at Sports Day Carnival. There were 140 more boys than girls. How many girls were there?

- 1) 160
- 2) 300
- 3) 320
- 4) 370

16. The figure below is made up of 5 identical squares. The area of each square is  $36 \text{ cm}^2$ . What is the perimeter of the figure?

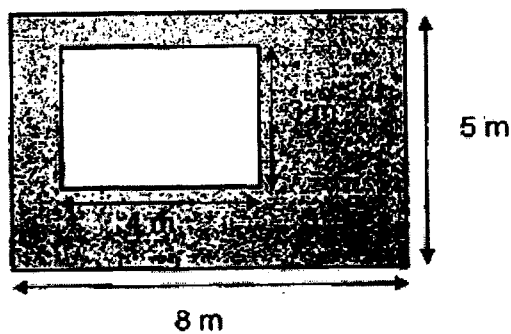


- 1) 60 cm
- 2) 72 cm
- 3) 120 cm
- 4) 180 cm

17. Siti and Tina had the same number of beads at first. After Siti threw away 24 beads and Tina bought another 84 beads, Tina had 4 times as many beads as Siti. How many beads did Siti have at first?

- 1) 39
- 2) 44
- 3) 51
- 4) 60

18. A fruit seller had 30 boxes of pineapples. There were 24 pineapples in each box. He sold all the pineapples at 6 for \$18. How much money did he receive?
- 1) \$2160
  - 2) \$2592
  - 3) \$3240
  - 4) \$4320
19. Nancy and Peter bought a sofa. The sofa cost \$1200. Nancy paid  $\frac{3}{8}$  of the cost of the sofa. How much more did Peter pay than Nancy?
- 1) \$150
  - 2) \$300
  - 3) \$450
  - 4) \$750
20. The figure below is made up of 2 rectangles. What is the shaded area?



- 1)  $52 \text{ m}^2$
- 2)  $40 \text{ m}^2$
- 3)  $28 \text{ m}^2$
- 4)  $12 \text{ m}^2$

**End of Booklet A**



# Anglo-Chinese School (Junior)



## END-OF-YEAR EXAMINATION (2023)

### PRIMARY 4 MATHEMATICS Booklet B

31 October 2023

Total Time for Booklet A and Booklet B : 1 hour 45 minutes

Name: \_\_\_\_\_ ( ) Class: 4.( )

Parent's Signature: \_\_\_\_\_

#### **INSTRUCTIONS TO CANDIDATES**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of calculators is **NOT** allowed.

Booklet	Section	Possible Marks	Marks Obtained
A	A	40	
B	B	40	
	C	20	
Total		100	

This question paper consists of 15 printed pages and 1 blank page.

**Blank Page**

**Section B**

Questions 21 to 40 carry 2 marks each. Show your working clearly and write your answers in the boxes provided. For questions which require units, give your answers in the units stated. (40 marks)

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

6649 , 6799 , 6949 , \_\_\_\_\_ , 7249

22. Write  $3\frac{4}{5}$  as an improper fraction.

23.  $23.85 + 0.19 =$  \_\_\_\_\_

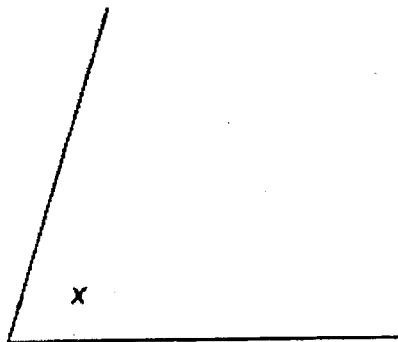
B2

Sub-Total :

24. Find the value of  $6.84 \times 7$ .

25. What is the remainder when 1964 is divided by 8?

26. Measure and write down the size of  $\angle x$ .



B3

Sub-Total :

27. Which two of the fractions below are in the simplest form?

$$\frac{2}{3}, \frac{3}{6}, \frac{4}{8}, \frac{5}{9}$$

28. Arrange the following numbers from the smallest to the greatest.

$$\frac{3}{4}, 0.705, 0.075$$

_____	_____	_____
(smallest)		(greatest)

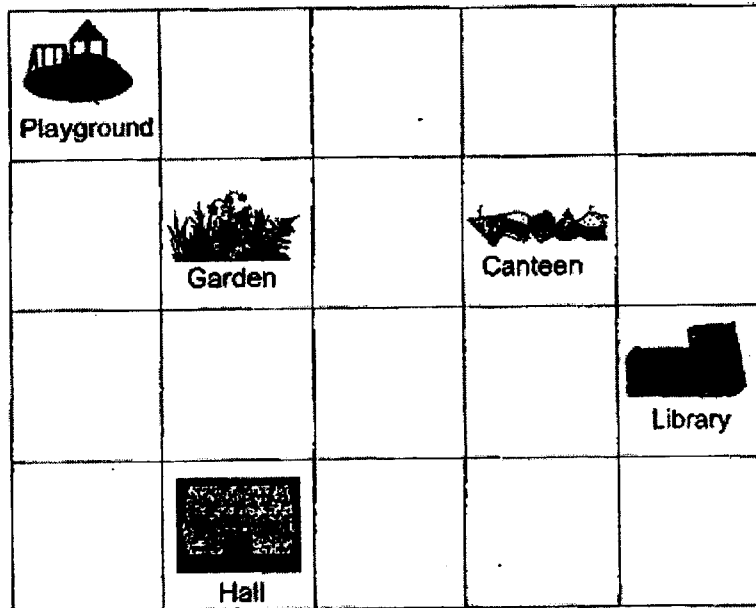
29. Two factors of 10 are 1 and 10. What are the other two factors of 10?

B4

Sub-Total :

30. Sumin took 45 min to walk from her home to school. She was 30 min early for the school concert. The concert started at 5 p.m. At what time did she leave her house? Give your answer in the 24-hour clock.

31. The square grid below shows the plan of a school.



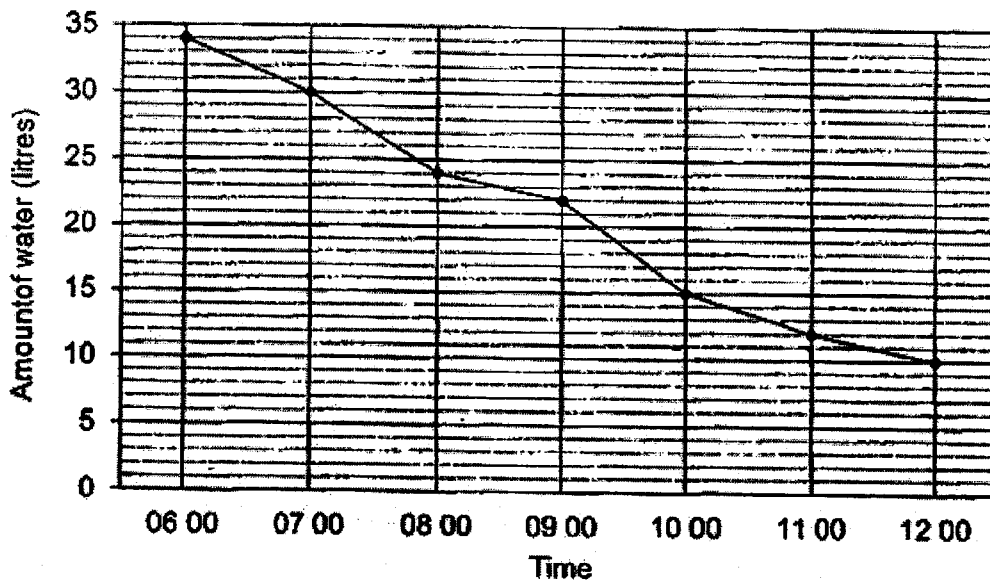
- (a) In what direction is the canteen from the hall?

- (b) The school wants to build a fitness corner. The location of the fitness corner is west of the library and south-east of the playground. Put a tick (✓) in the square where the fitness corner will be built.

B5

Sub-Total :

The graph below shows the amount of water in a tank from 06 00 to 12 00. Study the graph carefully and answer Question 32 and 33.



32. During which 1-hour interval was the decrease in the amount of water the greatest?

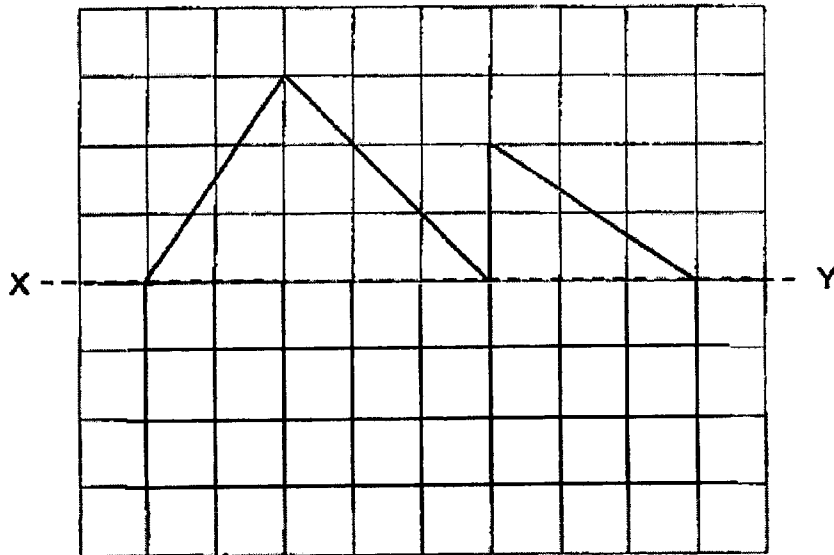
33. The amount of water in the tank at 08 00 was 3 times the amount of water at 13 00. How much water was there in the tank at 13 00?

B6

Sub-Total :

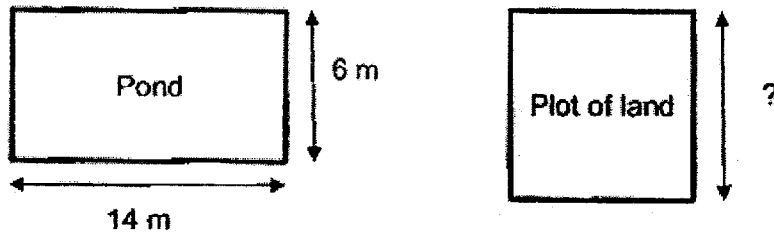
34. There are 174 fruits in a basket.  $\frac{1}{3}$  are apples and the rest are pears.  
How many pears are there?

35. Complete the figure below with XY as the line of symmetry.

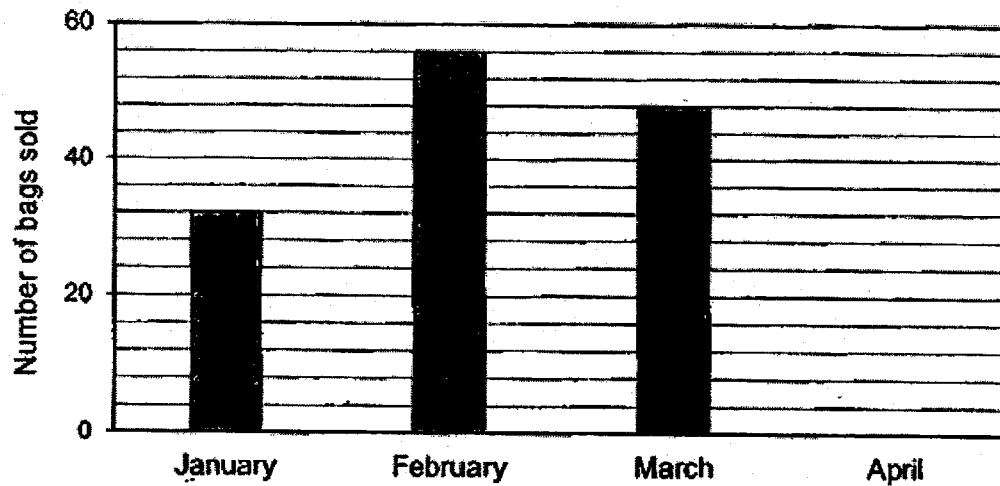




36. A rectangular pond, 14 m long and 6 m wide, has the same perimeter as a square plot of land. What is the length of one side of the square plot of land?


 m

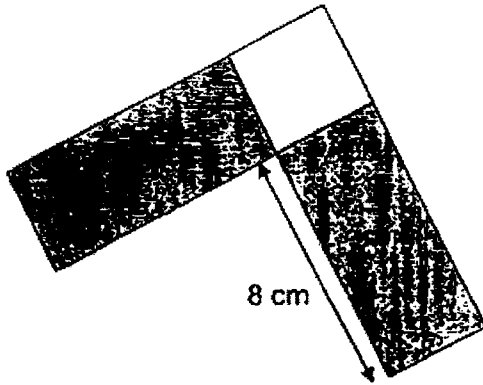
37. The graph below shows the number of bags Mr. Tan sold from January to April. The bar for April is not drawn.



Mr. Tan sold a total of 156 bags from February to April. What is the number of bags sold in April?

Sub-Total :

38. The figure below is made up of 2 identical rectangles and a square. The total area of the 2 shaded rectangles is  $64 \text{ cm}^2$ . What is the length of the square?

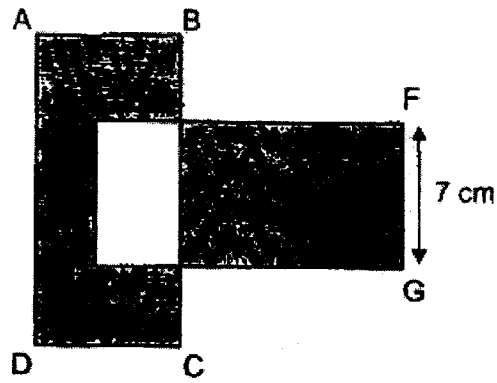
 cm

39. Siti had the same number of \$2 and \$5 notes. She had a total of \$252. How many \$2 notes did she have?

B9

Sub-Total :

40. In the figure, ABCD and EFGH are identical rectangles. The area of each rectangle is  $112 \text{ cm}^2$ . Find the shaded area.



$\text{cm}^2$

B10

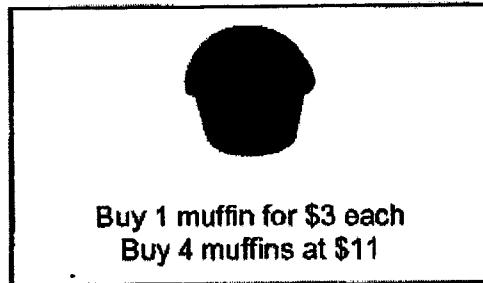
Sub-Total :

**Section C**

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. (20 marks)

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41. A stall had a promotion.



Mandy bought 49 muffins. What was the least amount of money Mandy had to pay for the 49 muffins?

Ans: \_\_\_\_\_ [4]

B11

Sub-Total :

42. James had \$16.40. He wanted to buy 3 notebooks and 1 pencil case , but he was short of \$3.30.

(a) What was the total cost of the 3 notebooks and 1 pencil case ?

Ans: (a) \_\_\_\_\_ [1]

(b) The pencil case cost \$2.90 more than each notebook. What was the cost of 1 notebook?

Ans: (b) \_\_\_\_\_ [3]

B12

Sub-Total :

43. Venus and Melvin were given some money. Venus spent  $\frac{1}{4}$  of her money and had \$141 left.

(a) How much did Venus spend?

Ans: (a) \_\_\_\_\_ [1]

(b) Melvin spent two times as much as Venus. He had  $\frac{2}{3}$  of his money left.  
How much did Melvin have in the end?

Ans: (b) \_\_\_\_\_ [3]

B13

Sub-Total :

44. Sarah gives some erasers equally to her friends. If she gives 6 erasers to each friend, she will need another 4 erasers. If she gives 5 erasers to each friend, she will have 3 erasers left.

(a) How many friends does Sarah have?

Ans: (a) \_\_\_\_\_ [2]

(b) How many erasers does Sarah have?

Ans: (b) \_\_\_\_\_ [2]

B14

Sub-Total :

45. Lydia had twice as much money as Kenneth at first. Kenneth then gave Lydia \$24. In the end, Lydia had 4 times as much money as Kenneth. How much money did Kenneth have at first?

Ans: \_\_\_\_\_ [4]

**End of Booklet B**

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B15

Sub-Total :



**SCHOOL :** ACS PRIMARY SCHOOL  
**LEVEL :** PRIMARY 4  
**SUBJECT :** MATHEMATICS  
**TERM :** 2023 SA2

**CONTACT :**

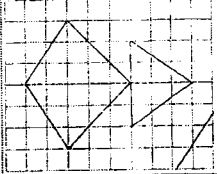
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**SECTION A**

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

**SECTION B**

Q21	7099
Q22	$\frac{19}{5}$
Q23	24.04
Q24	47.88
Q25	4
Q26	73°
Q27	$\frac{2}{3} \cdot \frac{5}{9}$
Q28	0.075, 0.705, $\frac{3}{4}$
Q29	5, 2
Q30	1545
Q31a	North-East
Q31b	
Q32	0900 to 1000
Q33	Amt. of water at 0800 = 24 ℓ Amt. of water at 1300 = 24 ÷ 3 = 8 ℓ

Q34	$3u = 174$ $1u = 174 \div 3 = 58$ $2u = 58 \times 2 = 116$
Q35	
Q36	Perimeter of square = $14 + 14 + 6 + 6 = 40$ m Length of 1 side of square = $40 \div 4 = 10$ m
Q37	$156 - 32 - 56 - 48 = 52$
Q38	Area of 1 shaded rectangle = $64 \div 2 = 32$ cm <sup>2</sup> Length of square = $32 \div 8 = 4$ cm
Q39	Group 1 \$2 note and 1 \$5 note as 1 group Total value of 1 group = $\$2 + \$5 = \$7$ $\$252 \div \$7 = 36$
Q40	Unshaded area = $7 \times 5 = 35$ cm <sup>2</sup> Shaded area = $(2 \times 112) - (35 \times 2) = 154$ cm <sup>2</sup>

### SECTION C

Q41	$49 \div 4 = 12$ R 1 $12 \times \$11 = \$132$ $\$132 + \$3 = \$135$								
Q42a	$\$16.40 + \$3.30 = \$19.70$								
Q42b	$4u = \$19.70 - \$2.90 = \$16.80$ $1u = \$16.80 \div 4 = \$4.20$								
Q43a	$\$141 \div 3 = \$47$								
Q43b	$\frac{1}{3}$ of Melvin's money = $\$47 \times 2 = \$94$ Amt. Melvin had left = $\$94 \times 2 = \$188$								
Q44a	Use guess and check method Ans: 7								
Q44b	$7 \times 6 - 4 = 38$								
Q45	Constant total: make total units for before & after the same <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Before</th> <th style="text-align: left; border-bottom: 1px solid black;">After</th> </tr> </thead> <tbody> <tr> <td>L : K : Total</td> <td>L : K : Total</td> </tr> <tr> <td>2 : 1 : 3</td> <td>4 : 1 : 5</td> </tr> <tr> <td>10 : 5 : 15</td> <td>12 : 3 : 15</td> </tr> </tbody> </table> $2u = \$24$ $1u = \$12$ $5u = 5 \times \$12 = \$60$	Before	After	L : K : Total	L : K : Total	2 : 1 : 3	4 : 1 : 5	10 : 5 : 15	12 : 3 : 15
Before	After								
L : K : Total	L : K : Total								
2 : 1 : 3	4 : 1 : 5								
10 : 5 : 15	12 : 3 : 15								