

**END-OF-YEAR EXAMINATION 2016
PRIMARY 4 MATHEMATICS
BOOKLET A**

Total Time: 1 h 45 minutes

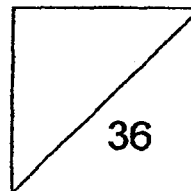
INSTRUCTIONS TO CANDIDATES

**Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.**

Name: _____

Class: _____

Date: 26 OCTOBER 2016



Section A: MCQ (36 marks)

Questions 1 to 18 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.

1. 44 thousands and 6 tens is the same as _____.

- (1) 446
- (2) 4 460
- (3) 44 006
- (4) 44 060

2. 36 588 rounded off to the nearest hundred is _____.

- (1) 36 500
- (2) 36 590
- (3) 36 600
- (4) 37 000

3. $3\frac{5}{9} = \frac{\square}{9}$

What is the missing number in the box?

- (1) 15
- (2) 22
- (3) 27
- (4) 32

4. Arrange the following fractions from the smallest to the greatest.

$$\frac{7}{12}, \quad \frac{1}{4}, \quad \frac{2}{3}$$

(1) (smallest) (greatest)
 $\frac{1}{4}, \quad \frac{7}{12}, \quad \frac{2}{3}$

(2) $\frac{7}{12}, \quad \frac{1}{4}, \quad \frac{2}{3}$

(3) $\frac{2}{3}, \quad \frac{7}{12}, \quad \frac{1}{4}$

(4) $\frac{1}{4}, \quad \frac{2}{3}, \quad \frac{7}{12}$

5. Round off 47.72 to the nearest whole number.

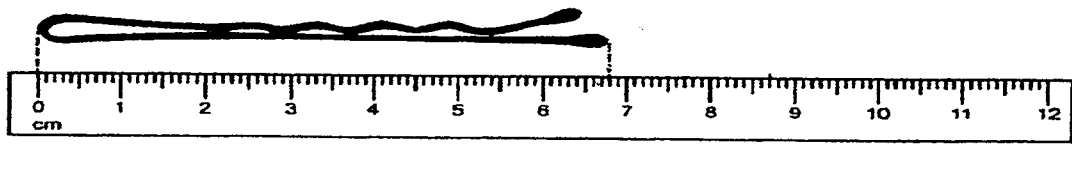
(1) 47

(2) 48

(3) 49

(4) 50

6. In the figure below, what is the length of the hair pin in cm? Give your answer in decimal.



(1) 6.3

(2) 6.8

(3) 7.2

(4) 7.8

7. Which one of the following is equal to 1.25?

(1) $1 + \frac{2}{10} + \frac{5}{10}$

(2) $1 + \frac{2}{100} + \frac{5}{100}$

(3) $1 + \frac{25}{100}$

(4) $\frac{125}{1000}$

Study the table carefully and answer questions 8 and 9.

The table below shows the number of books donated by a group of children during a charity drive.

No of books donated	1	2	3	4	5
No of children	2	5	10	6	3

8. How many children donated at least 3 books?

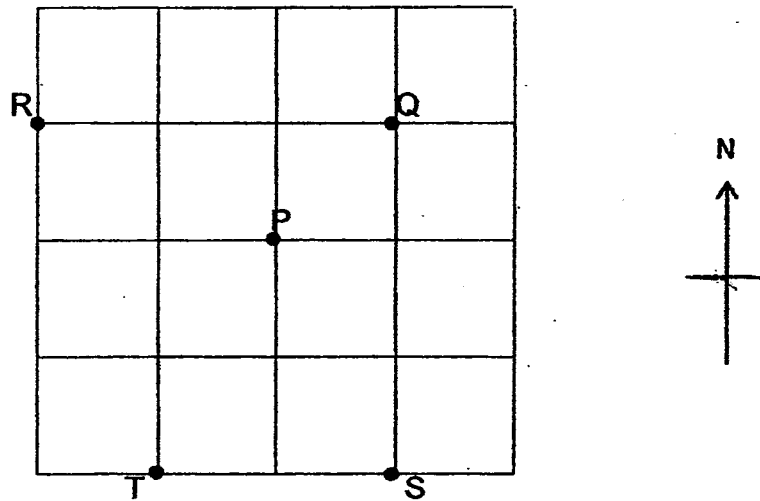
- (1) 7
- (2) 9
- (3) 10
- (4) 19

9. What is the total number of books donated by all the children?

- (1) 15
- (2) 26
- (3) 41
- (4) 81

10. Meng is 43.5 kg. His brother is 5.6 kg lighter. What is their total mass?
- (1) 37.9 kg
 - (2) 49.1 kg
 - (3) 80.4 kg
 - (4) 81.4 kg
11. Ben started painting his room at 09 45. He stopped for a 1-hour lunch break and continued painting until 17 50. How long did he spend painting his room?
- (1) 7 h 5 min
 - (2) 7 h 15 min
 - (3) 8 h 5 min
 - (4) 8 h 15 min
12. $\frac{5}{6}$ of a number is 30. What is the number?
- (1) 5
 - (2) 6
 - (3) 25
 - (4) 36
13. A teddy bear is priced at \$25 each. What is the amount of money collected if 268 similar teddy bears are sold?
- (1) \$1 340
 - (2) \$1 876
 - (3) \$6 700
 - (4) \$6 600

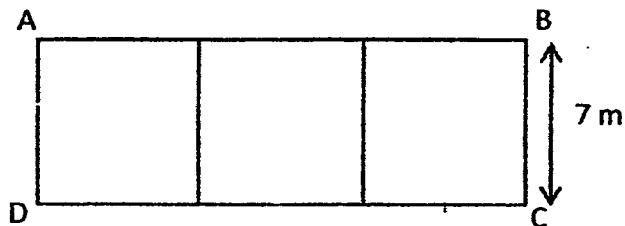
Look at the grid below and answer question 14.



14 Which one of the following statements is correct?

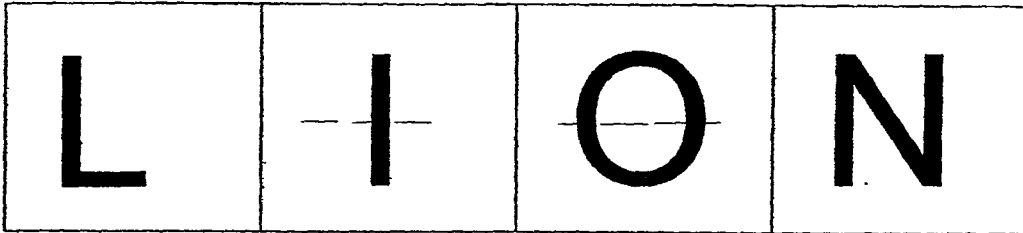
- (1) T is north-east of P
- (2) R is east of Q
- (3) P is north-west of S
- (4) S is south of P

15. The figure ABCD is made up of 3 identical squares. What is the perimeter of the figure?



- (1) 49 m
- (2) 56 m
- (3) 70 m
- (4) 125 m

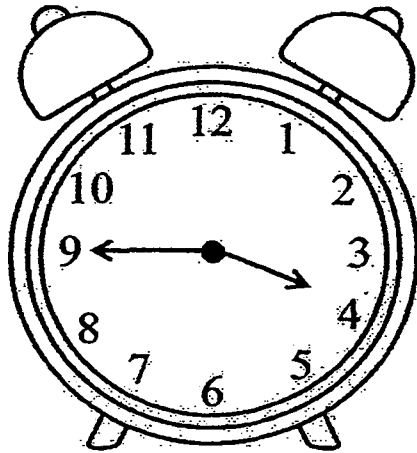
16. Which two of the following letters are symmetrical?



- (1) L and I
 - (2) O and N
 - (3) L and N
 - (4) I and O
- 17 David is thinking of a number. The number is divisible by 3 and 4.
It has 24 as one of its multiples and 8 as one of its factors.
What is the number?

- (1) 6
- (2) 8
- (3) 12
- (4) 24

- 18 John woke up from his afternoon nap and was shocked when he saw the time indicated on the clock. What would the time be when expressed using the 24-hour clock?



- (1) 03 45
- (2) 09 20
- (3) 15 45
- (4) 16 45

**END-OF-YEAR EXAMINATION 2016
PRIMARY 4 MATHEMATICS
BOOKLET B**

Total Time: 1 h 45 minutes

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Name:

Class:

Date: 26 OCTOBER 2016

BOOKLET A	36
BOOKLET B	36
BOOKLET C	28
TOTAL	100

This booklet consists of 7 printed pages including this page.

Section B: (36 marks)**Questions 19 to 36 carry 2 marks each.****Write out the correct answers for the following questions in the space provided. Show your working clearly and give your answers in the units provided.**

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

5 679 , 5 829 , 5 979 , _____ , 6 279

Ans : _____

20. Some factors of 36 are 1, 2, 3, 6, 9, 18 and 36. What are the other two factors of 36?

Ans : _____

21. $4\,308 \div 6 =$ _____

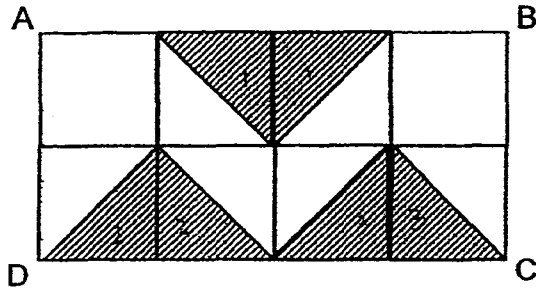
Ans : _____

22. Which two of the fractions below are equivalent to $\frac{8}{12}$? $\frac{18}{24}$, $\frac{4}{6}$, $\frac{5}{9}$, $\frac{2}{3}$

Ans : _____ and _____

(Go on to the next page)

23. In the figure below, rectangle ABCD is made up of 8 unit squares. What fraction of rectangle ABCD is shaded?



Ans : _____

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

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

_____ , _____ , _____
(smallest) (greatest)

25. $7.82 + 6 =$ _____

Ans : _____

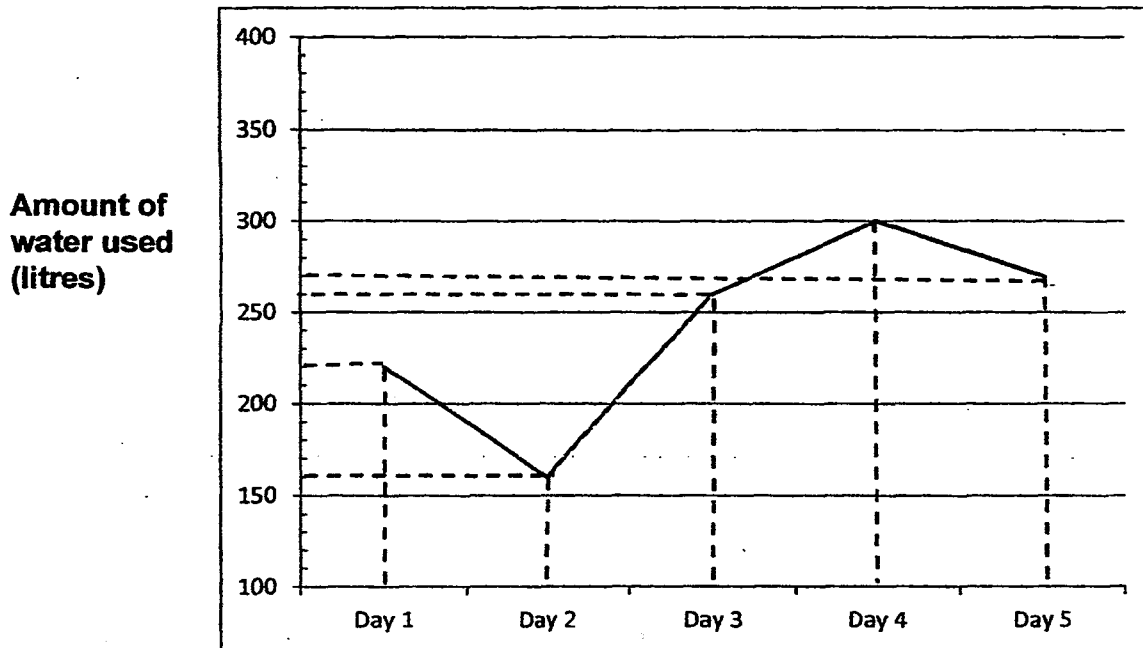
26. A number lock needs a 3-digit number code to unlock it.
The digit in the hundreds place is twice the digit in the ones place.
The digit in the tens place is half the digit in the ones place.
The sum of the 3 digits is 7
What is the number code?

Ans : _____

(Go on to the next page)

Study the graph carefully and answer questions 27 and 28.

The graph below shows the amount of water used by Farmer Raju in 5 days.



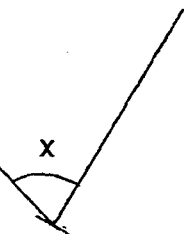
27. Between which 2 consecutive days was the difference in the amount of water used the greatest?

Ans : _____ and _____

28. Farmer Raju had to pay 10 cents for each litre of water used.
What was the difference in the amount of money he had to pay for the water used on Day 2 and on Day 5?

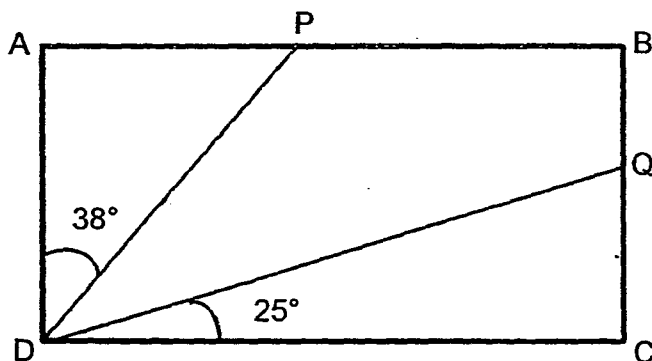
Ans : \$ _____

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



Ans : _____

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



Ans : _____

31. Mrs Lim used $\frac{2}{3} l$ of milk to make pancakes and $\frac{3}{4} l$ of milk to make a pudding. What was the total amount of milk Mrs Lim used? (Give your answer as a mixed number.)

Ans: _____ l

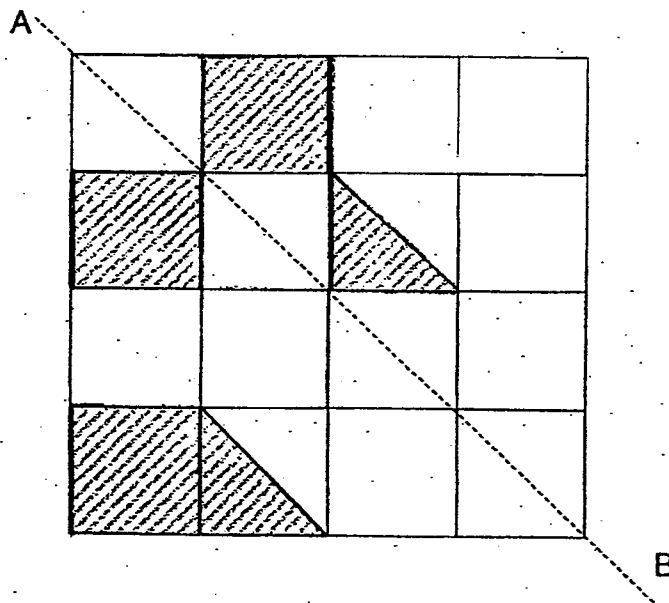
32. Jen took a 20-minute bus ride to the nearest MRT station.
5 minutes later, she boarded the train which arrived at 1110.
At what time did she board the bus?
(Give your answer using the 24 hour clock)

Ans : _____

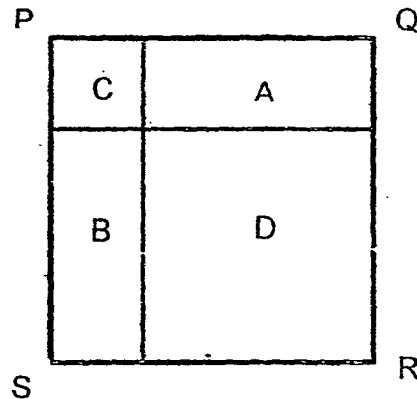
33. The area of a rectangle is 48 cm^2 . Its length is 2 cm longer than its breadth. Find the perimeter of the rectangle.

Ans: _____ cm

34. Shade 2 triangles and 1 square in the figure below so as to form a symmetric figure with AB as the line of symmetry.

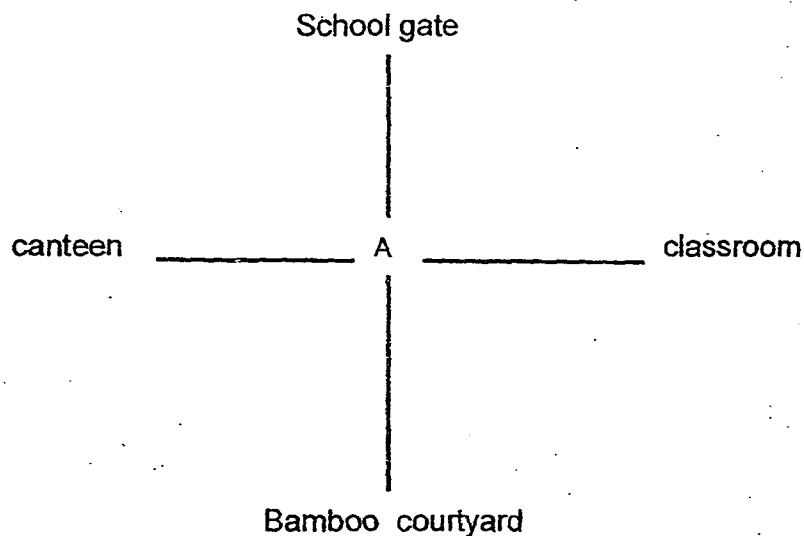


35. PQRS is a square. It is made up of two smaller squares C and D and two identical rectangles A and B. Area of C is 9 m^2 and area of D is 36 m^2 . What is the area of PQRS?



Ans: _____ m^2

36. Siti was standing at Point A facing her classroom. She turned anti-clockwise to face the bamboo courtyard. How many right-angled turns did she make?



Ans: _____

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PRIMARY 4 MATHEMATICS
BOOKLET C**

Total Time: 1 h 45 minutes

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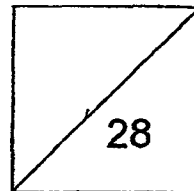
Follow all instructions carefully.

Answer all questions.

Name: _____

Class: _____

Date: 26 OCTOBER 2016



Section C: (28marks)

Show your working clearly in the space provided for each question and write your answers in the space provided.

The number of marks available is shown in brackets [] at the end of each question or part-question.

37. Ali, Ben and Kit donated \$500 altogether.
Ali donated 3 times as much money as Ben.
Kit donated \$72. What was the amount donated by Ben?

Ans: _____ [3]

38. A box of grapes costs \$7 and a box of strawberries costs \$9.
Mrs Tan paid \$132 for 16 boxes of grapes and strawberries.
How many boxes of grapes did Mrs Tan buy ?

Ans: _____ [3]

(Go on to the next page)

39. Joseph had \$280. He spent $\frac{3}{5}$ of it on a watch.

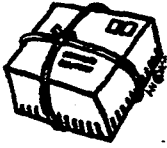
The remaining money was shared equally among his 7 grandchildren.
How much did each grandchild receive?

Ans : _____ [3]

40. John has \$4.20. His sister has \$9.60
How much should his sister give him so that they both have the same amount of money?

Ans: _____ [3]

41.



Parcel A - $\frac{3}{4}$ kg
heaviest



Parcel B



Parcel C
lightest

The Picture above shows Parcel A, B and C

The difference between the mass of Parcel A and mass of Parcel C is $\frac{7}{12}$ kg

The difference between the mass of Parcel B and mass of Parcel C is $\frac{1}{3}$ kg

What is the mass of Parcel B? Give your answer in its simplest form.

Ans: _____ [4]

42. A total of 112 people were standing in a queue to buy tickets.
The first person in the queue is a woman.
There were 3 men standing between any two women.
a) How many men were there in the queue?
b) What fraction of the people in the queue were women?

Ans: (a) _____ [3]

(b) _____ [1]

(Go on to the next page)

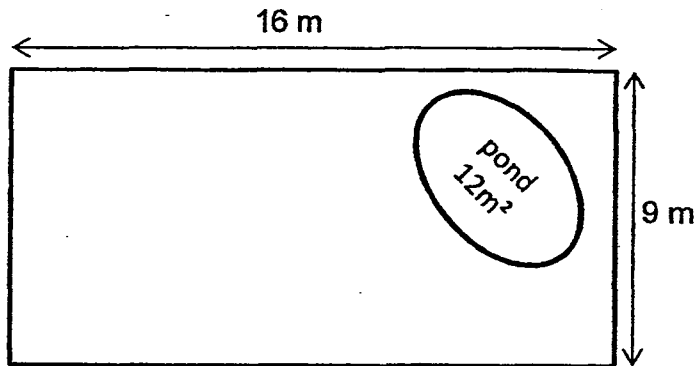
43. Mary paid \$14.80 for 4 forks and 4 knives.
Each knife cost \$1.30 more than each fork.
What was the cost of 1 knife?

Ans: _____ [4]

(Go on to the next page)

44. The figure shows a rectangular garden. It had a 12 m^2 pond at one corner. The rest of the garden was for plants. The gardener put a fence around it. 1 m of fence cost \$12.

- (a) What area of the garden was filled with plants ?
(b) What was the cost of the fence?



Ans: (a) _____ [2]

(b) _____ [2]

ANSWER KEY

YEAR : 2016
LEVEL : PRIMARY 4
SCHOOL : METHODIST GIRLS'
SUBJECT : MATHEMATICS
TERM : SA2

Booklet A

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

Booklet B

Q19 6129
Q20 4 and 12
Q21 718
Q22 $\frac{4}{6}$ and $\frac{2}{3}$
Q23 $\frac{3}{8}$
Q24 0.075, 0.705, $\frac{3}{4}$
Q25 13.82
Q26 412
Q27 Day 2 and Day 3
Q28 \$11
Q29 74°
Q30 27°

Q31

$$\begin{aligned} & \frac{2}{3} + \frac{3}{4} \\ & \rightarrow \frac{8}{12} + \frac{9}{12} \\ & \rightarrow \frac{17}{12} \\ & \Rightarrow 1 \frac{5}{12} \end{aligned}$$

Q32

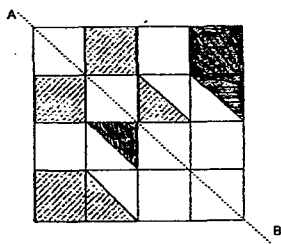
1045 hrs

Q33

$$8 + 6 \rightarrow 14$$

$$14 \times 2 \Rightarrow \underline{28 \text{ cm}}$$

Q34



Q35

$$3 + 6 \rightarrow 9$$

$$9 \times 9 \Rightarrow \underline{81 \text{ m}^2}$$

Q36

3

Booklet C

Q37

$$\$500 - \$72 \rightarrow \$428$$

$$\$428 \div 4 \Rightarrow \underline{\$107}$$

Q38

6 boxes

Q39

$$280 \div 5 \rightarrow 56$$

$$56 \times 2 \rightarrow 112$$

$$112 \div 7 \Rightarrow \underline{\$16}$$

Q40

$$\$9.60 - \$4.20 \rightarrow \$5.40$$

$$\$5.40 \div 2 \Rightarrow \underline{\$2.70}$$

Q41

$$\begin{aligned} & \frac{3}{4} - \frac{7}{12} \\ & \rightarrow \frac{9}{12} - \frac{7}{12} \\ & \rightarrow \frac{2}{12} \\ & \frac{2}{12} + \frac{1}{3} \\ & \rightarrow \frac{2}{12} + \frac{4}{12} \\ & \rightarrow \frac{6}{12} \\ & \Rightarrow \frac{1}{2} \text{ kg} \end{aligned}$$

Q42a

$$\begin{aligned} 112 \div 4 & \rightarrow 28 \\ 28 \times 3 & \Rightarrow \underline{84 \text{ men}} \end{aligned}$$

Q42b

$$\frac{1}{4} \text{ women}$$

Q43

$$\begin{aligned} \$1.30 \times 4 & \rightarrow \$5.20 \\ \$14.80 - \$5.20 & \rightarrow \$9.60 \\ \$9.60 \div 8 & \rightarrow \$1.20 \\ \$1.20 + \$1.30 & \Rightarrow \underline{\$2.50} \end{aligned}$$

Q44a

$$\begin{aligned} \text{Area of garden: } 16 \times 9 & \rightarrow 144 \\ \text{Garden area with plants: } 144 - 12 & \Rightarrow \underline{132 \text{ m}^2} \end{aligned}$$

Q44b

$$\begin{aligned} 16 + 9 & = 25 \\ 25 \times 2 & = 50 \\ 50 \times 12 & \Rightarrow \underline{\$600} \end{aligned}$$

