SEMESTRAL ASSESSMENT 1

Primary 4 MATHEMATICS

10 MAY 2016

BOOKLET A

20 questions

40 marks

Total Time For Booklets A and B: 1 h 45 min

NAME : _____

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

Section A (20 x 2 = 40 marks)

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.

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1. The value of digit 8 in 98 423 is _____.

   (1) 8

   (2) 800

   (3) 8000

   (4) 80 000

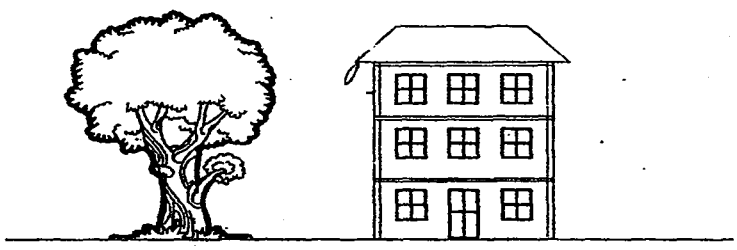
2. How many tens are there in 62 110?

   (1) 10

   (2) 110

   (3) 211

   (4) 6211

3. 

   The figure shows a tree next to a three-storey building. Which one of the following could be the height of the tree?

   (1) 1 m

   (2) 10 m

   (3) 100 m

   (4) 1000 m

4. 5 kg 10 g is the same as _____.

(1) 501 g
(2) 510 g
(3) 5010 g
(4) 5100 g

5. The factors of 63 are 1, 3, 7, _____, _____ and 63.

(1) 7 and 9
(2) 8 and 9
(3) 9 and 21
(4) 11 and 21

6. Which of the letters below is symmetrical?

(1) F
(2) H
(3) N
(4) Q

7. The sum of the first 3 multiples of 6 is _____.

(1) 9
(2) 12
(3) 18
(4) 36

8. When rounded off to the nearest ten, there are 4860 cans of food collected during a food donation drive. Which of the following is the actual number of cans collected?

(1) 4865

(2) 4864

(3) 4854

(4) 4851

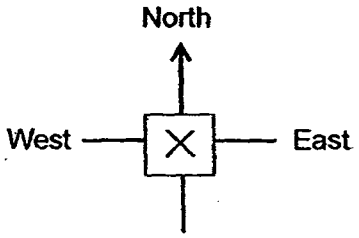
9. Xavier is standing on point X, facing West.
After making half a turn in an anti-clockwise direction, where will he be facing?

(1) East

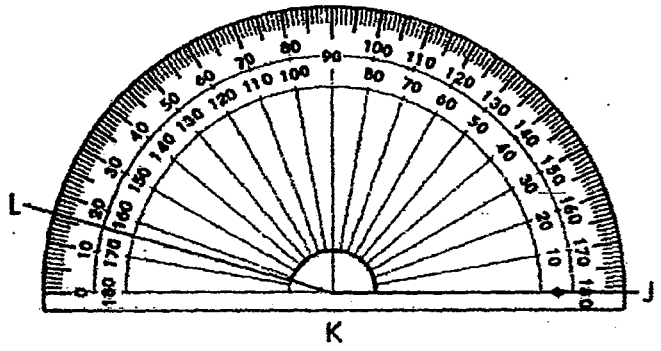
(2) West

(3) North

(4) South



10. What is the size of angle JKL in the diagram below?



(1) 16°

(2) 24°

(3) 164°

(4) 176°

11. Which one of the following fractions is greater than $\frac{4}{5}$?

(1) $\frac{8}{9}$

(2) $\frac{9}{12}$

(3) $\frac{3}{5}$

(4) $\frac{1}{2}$

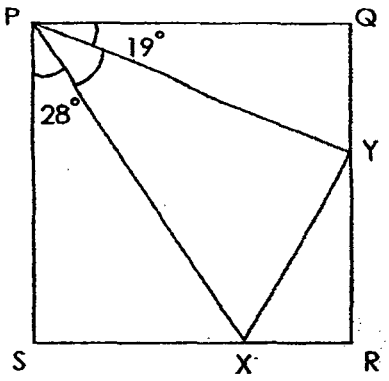
12. PQRS is a square. The angles in the diagram are not drawn to scale. Find $\angle XPY$.

(1) 43°

(2) 47°

(3) 53°

(4) 62°



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

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

(smallest) (greatest)

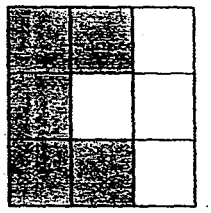
(1) $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{8}$

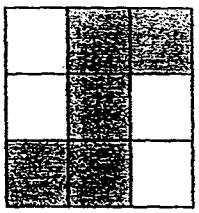
(2) $\frac{2}{3}$, $\frac{5}{8}$, $\frac{3}{4}$

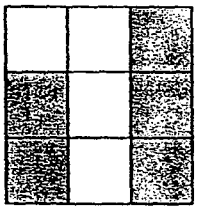
(3) $\frac{3}{4}$, $\frac{5}{8}$, $\frac{2}{3}$

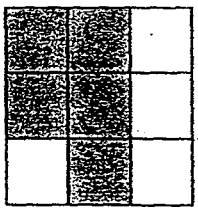
(4) $\frac{5}{8}$, $\frac{2}{3}$, $\frac{3}{4}$

14. Each figure below is made up of nine squares. Five squares in each figure are shaded. Which one is a symmetric figure?

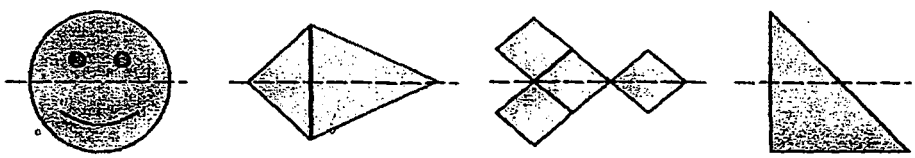
(1) 

(2) 

(3) 

(4) 

15. In which of the following figures is the dotted line a line of symmetry?



A B C D

(1) B only

(2) A and B

(3) A and D

(4) B and C

16. Jason spent 45 minutes watching the show "Frogman".
He then spent 1 hour 25 minutes watching "Planet Wars".
How long did he spend watching both shows?

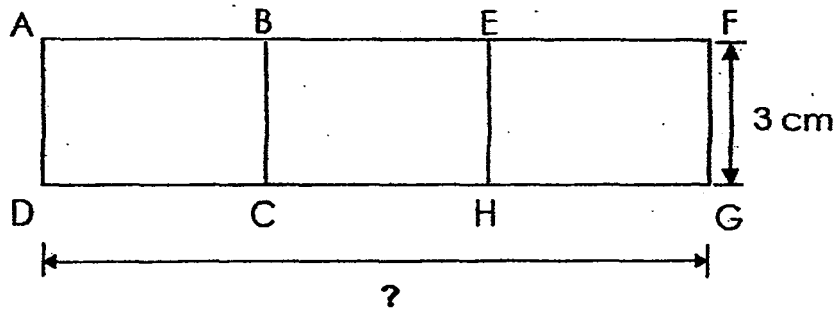
(1) 80 minutes

(2) 85 minutes

(3) 130 minutes

(4) 170 minutes

17. The figure is made up of three identical rectangles ABCD, BEHC and EFGH. The area of each rectangle is 15 cm². What is the length of DG?



(1) 5 cm

(2) 8 cm

(3) 9 cm

(4) 15 cm

18. Tristan has 25 coins with a total value of $8. They are a mixture of 20¢ coins and 50¢ coins. How many 20¢ coins does Tristan have?

(1) 10

(2) 15

(3) 16

(4) 20

19. Toothpicks are used to form the figures below. Figure 1 is formed using 4 toothpicks. Figure 2 is formed using 7 toothpicks.

Figure 1 Figure 2 Figure 3 Figure 4

How many toothpicks are needed to form Figure 7?

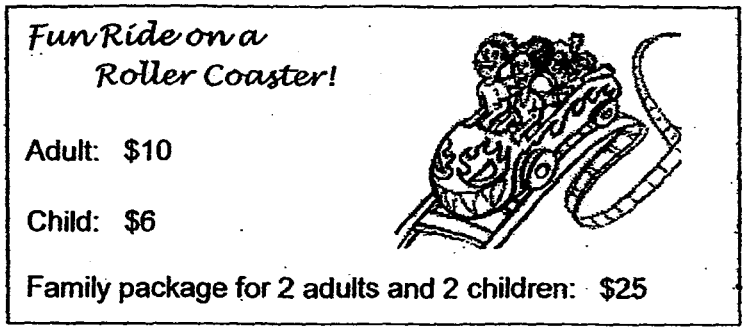
(1) 9

(2) 16

(3) 22

(4) 28

20. The prices of tickets for a roller coaster ride are shown below.



Mr Williams went on the ride with his wife and three children.
What was the least amount the family had to pay for the ride?

(1) $28

(2) $31

(3) $38

(4) $42

End of Booklet A

Go on to Booklet B

SEMESTRAL ASSESSMENT 1

Primary 4 MATHEMATICS

10 MAY 2016

BOOKLET B

25 questions

60 marks

Total Time For Booklets A and B: 1 h 45 min

NAME : _____ ( )

CLASS : PRIMARY 4 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

MARKS OBTAINED :

BOOKLET A: _____ / 40

BOOKLET B: _____ / 60

TOTAL : _____ / 100

Section B (20 x 2 = 40 marks)

Show your working clearly in the spaces below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

21. What is the first common multiple of 6 and 8?

Answer: _____

Do not write in this space.

22. Use the digits below to form the smallest 5-digit **odd** number.

8, 3, 0, 7, 2

Answer: _____

23. When a number is divided by 9, the quotient is 312 and the remainder is 6. What is the number?

Answer: _____

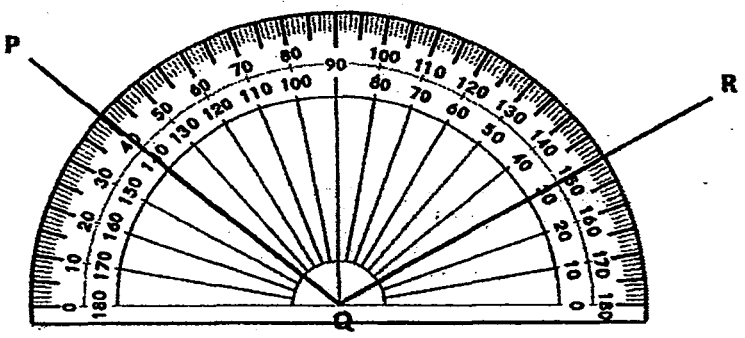
24. Danny took 100 minutes to bake a cake. He started at 4.00 p.m. At what time did he finish baking the cake?

Answer: _____ p.m.

SCORE

(Go on to the next page)

25. Find ∠PQR.



Answer: _____°

Do not write in this space.

26. Fill in the blanks with **kg** or **g**.

(a) A packet of chicken rice weighs 170 _____ .

(b) Your classmate weighs 42 _____ .

Answer: (a) _____

(b) _____

27. Box B weighs 860 g more than Box A. Box C weighs 4 times as much as Box A. The total mass of the 3 boxes is 4178 g. Find the mass of Box A.

Answer: _____ g

SCORE

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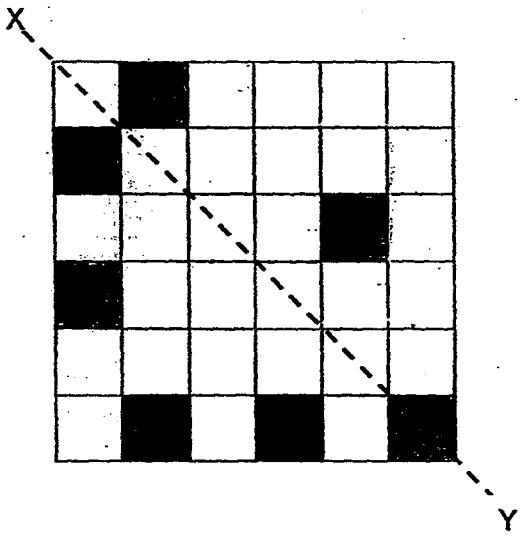
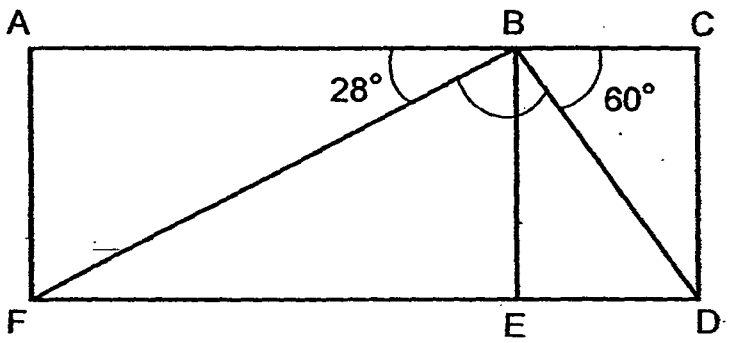
28. The dotted line XY is the line of symmetry for the figure below. What is the least number of squares that must be shaded in order to complete the symmetric pattern?

Do not write in this space.



Answer: _____

29. The figure is made up of two rectangles ABEF and BCDE. The angles are not drawn to scale. Find $\angle$ FBD.



Answer: _____°

SCORE

(Go on to the next page)

30. Mrs Tan had a cake. She gave $\frac{1}{3}$ of it to Joseph and $\frac{1}{2}$ of it to Alice.
What fraction of the cake has Mrs Tan left?

Do not write in this space.

Answer: _____

31. There are 20¢ coins in a box. They add up to a value of $8.60.
How many of such coins are there in the box?

Answer: _____

32. Jane puts her sweets into goodie bags. Each goodie bag contains the same number of sweets. If she puts 2 sweets, 4 sweets or 7 sweets into each goodie bag, she will not have any sweets left. What is the smallest possible number of sweets Jane has?

Answer: _____

SCORE

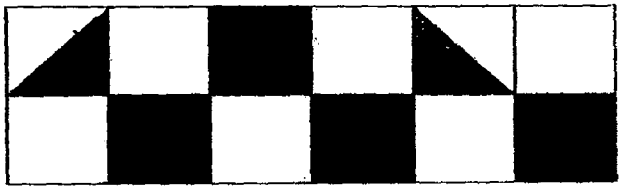
(Go on to the next page)

33. Mrs Goh had 10 m of cloth. She used 5 m 60 cm of it to make a dress and 105 cm of it to make some ribbons. How much cloth had she left? Express your answer in cm.

Do not write in this space.

Answer: _____ cm

34. What fraction of the figure is shaded?



Answer: _____

35. Look at the equation below.

$$\frac{8}{12} = \frac{X}{6} = \frac{2}{Y}$$

Find the values of X and Y.

Answer: X: _____

Y: _____

SCORE

(Go on to the next page)

36. Gilbert and Shawn had a total of 86 stickers at first. After Gilbert gave 13 stickers to Shawn, both of them have an equal number of stickers. How many stickers did Gilbert have at first?

Do not write in this space.

Answer: _____

37. The cost of 6 files and 10 markers is equal to the cost of 4 storybooks. How many storybooks cost as much as 9 files and 15 markers?

Answer: _____

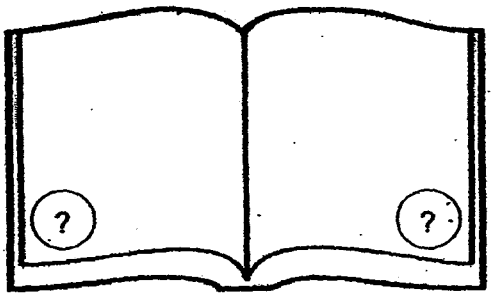
38. There are 8 more cows than ducks on a farm. They have 1004 legs altogether. How many ducks are there on the farm?

Answer: _____

SCORE

(Go on to the next page)

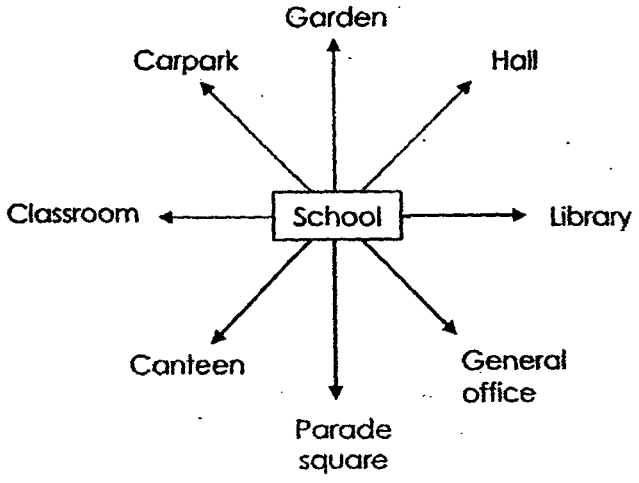
39. There are 30 pages in a storybook.
The product of two page numbers facing each other is 420.
What are the numbers on these two pages?



Answer: _____ and _____

Do not write in this space

40. James is facing the canteen. He turns 135° anti-clockwise and makes $\frac{1}{4}$ turn in the clockwise direction. Where is he facing now?



Answer: _____

SCORE

(Go on to the next page)

Section C (5 x 4 = 20 marks)

Work out the answers for each of the following questions. All workings must be shown clearly in the space provided.

Do not write in this space

41. A fruit seller has 364 green apples.

She has 3 times as many red apples as green apples.

She puts all the apples equally into 7 boxes.

How many apples are there in each box?

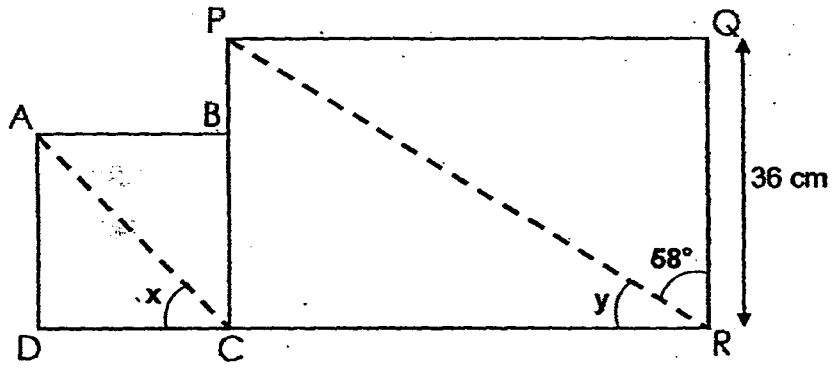
Answer: _____ [4]

SCORE

(Go on to the next page)

42. The figure below is not drawn to scale. It is made up of a square ABCD and a rectangle PQRC. BC is twice as long as PB. QR = 36 cm.

Do not write in this space



(a) Find the length of PB.

(b) Find the sum of $\angle x$ and $\angle y$.

Answer: (a) _____ [2]

(b) _____ [2]

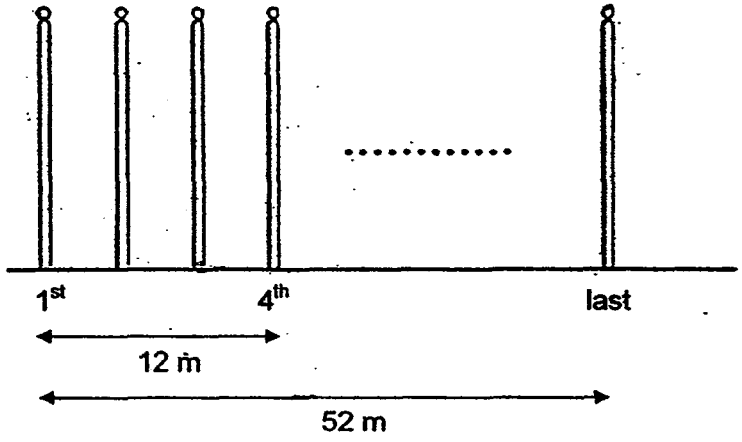
SCORE

(Go on to the next page)

43. Some flag poles are arranged in a straight line, at an equal distance from one another. The distance between the 1st and the last flag pole is 52 m. The distance between the 1st and the 4th flag pole is 12 m.

How many flag poles are there altogether?

Do not write in this space



Answer: _____ [4]

SCORE

(Go on to the next page)

44. Adam, Ben, Charles, Danny and Eddy meet up at the community club to play badminton. Each of them is to play against each other only once. How many matches of badminton will these boys play in total?

Do not write in this space

Answer:_____ [4]

SCORE

(Go on to the next page)

45. Study the figures below carefully.

Do not write in this space

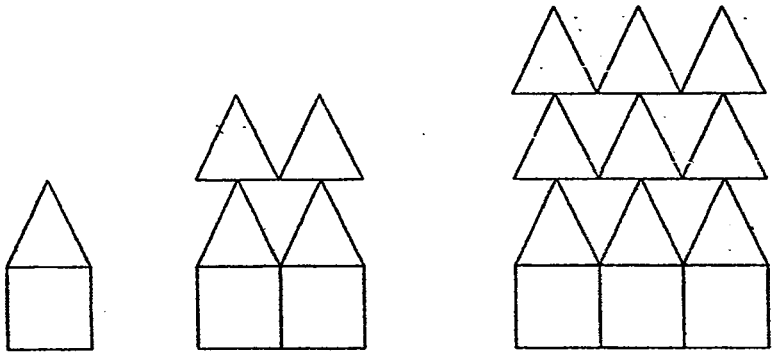


Figure 1 Figure 2 Figure 3

Figure No.	No. of squares	No. of triangles	No. of squares and triangles
1	1	1	2
2	2	4	6
3	3	9	12

(a) Find the number of triangles in Figure 6.

(b) Find the total number of squares and triangles in Figure 10.

Answer: (a) _____ [2]

(b) _____ [2]

End of PAPER

SCORE

ANSWER KEY

YEAR : 2016
LEVEL : PRIMARY 4
SCHOOL : MARIS STELLA HIGH
SUBJECT : MATHEMATICS
TERM : SA1

Booklet A

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

Booklet B

Q21 24

Q22 20387

Q23 2814

Q24 5:40pm

Q25 110°

Q26a g

Q26b kg

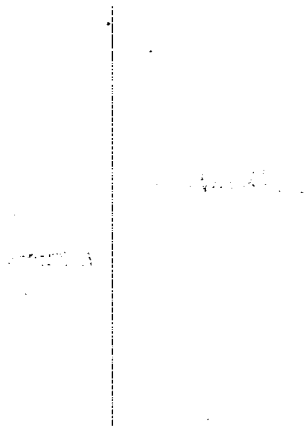
Q27 4178 – 860 = 3318
3318 ÷ 6 ⇒ 553g

Q28 4

Q29 60 + 28 = 88°
180 – 88 ⇒ 92°

Q30 $\frac{12}{12} - \frac{10}{12} = \frac{2}{12}$
$\frac{2}{12} \div 2 \Rightarrow \frac{1}{6}$

Q31 20¢ x 5 = $1
20¢ x 3 = 60¢
800 ÷ 20 = 40
40 + 3 ⇒ 43 coins



Q32 28

Q33 1000 – 665 ⇒ 335cm

Q34 $\frac{5}{12}$

Q35 X: 4
Y: 3

Q36 86 ÷ 2 = 43
43 + 13 ⇒ 56 stickers

Q37 6F + 10M = 4SB
3F + 5M = 2SB
9F + 15M ⇒ 6 storybooks

Q38 1004 – 32 = 92
972 ÷ 6 ⇒ 162 ducks

Q39 20 and 21

Q40 Parade square

Q41 364 x 3 = 1092
1092 + 364 = 1456
1456 ÷ 7 ⇒ 208 apples

Q42a 12 cm

Q42b 77°

Q43 12 ÷ 3 = 4
52 ÷ 4 = 13
13 + 1 ⇒ 14 flag poles

Q44 4 + 3 + 2 + 1 ⇒ 10 matches

Q45a 6 x 6 ⇒ 36 triangles

Q45b 10 x 11 ⇒ 110 total

End