METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

MID-YEAR EXAMINATION 2017
PRIMARY 4
MATHEMATICS

BOOKLET A

Total Time

Sections A to C: 1 hour 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: Primary 4._____

Date: 5 May 2017

/36

This booklet consists of 7 printed pages including this page.

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. Ninety-three thousand, four hundred and seven written in figures is _____.

   (1) 93 470
   (2) 93 407
   (3) 93 400
   (4) 93 047

2. In 89 345, the digit 9 stands for _____.

   (1) 9 tens
   (2) 9 hundreds
   (3) 9 thousands
   (4) 90 thousands

3. 23 796, 24 696, 25 596, _____, 27 396

   What is the missing number in the number pattern?

   (1) 25 496
   (2) 25 696
   (3) 26 496
   (4) 26 696

4. A number when rounded to the nearest **ten** gives 22 400. What is the number?

   (1) 22 389
   (2) 22 399
   (3) 22 410
   (4) 22 439

5. 12 is a common multiple of _____.

(1) 2 and 8
(2) 3 and 4
(3) 24 and 36
(4) 12 and 48

6. A number when divided by 4 has a quotient of 92 and remainder of 3. What is the number?

(1) 23
(2) 26
(3) 365
(4) 371

7. $\frac{1}{3}+\frac{1}{3}+\frac{2}{3}=\frac{\square}{6}$

(1) 8
(2) 2
(3) 7
(4) 4

8. $3\frac{2}{5}=1+1+\frac{\square}{5}$

(1) 12
(2) 2
(3) 10
(4) 7

9. How many quarters are there in $7\frac{3}{4}$?

(1) 31
(2) 28
(3) 3
(4) 21

10 The difference between two fractions is $\frac{1}{3}$. The bigger fraction is $\frac{3}{5}$. What is the sum of the two fractions?

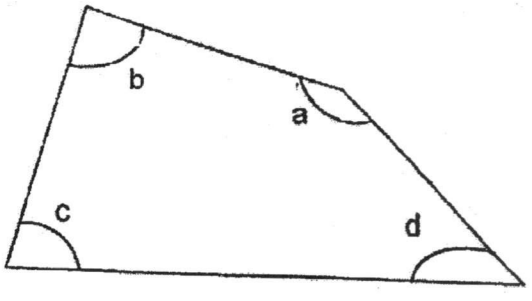
(1) $\frac{1}{2}$
(2) $\frac{4}{15}$
(3) $\frac{13}{15}$
(4) $\frac{14}{15}$

11. Cindy had 792 mℓ of cooking oil. She had $\frac{5}{8}$ of the oil left after cooking dinner. How much oil did she use?

(1) 99 mℓ
(2) 297 mℓ
(3) 495 mℓ
(4) 2 112 mℓ

12. In the figure, which one of the following is an obtuse angle?

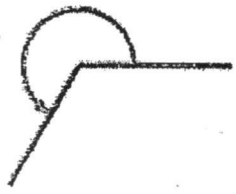
(1) $\angle$ a
(2) $\angle$ b
(3) $\angle$ c
(4) $\angle$ d



13. Which one of the following marked angles shows an angle between 270° and 360°?

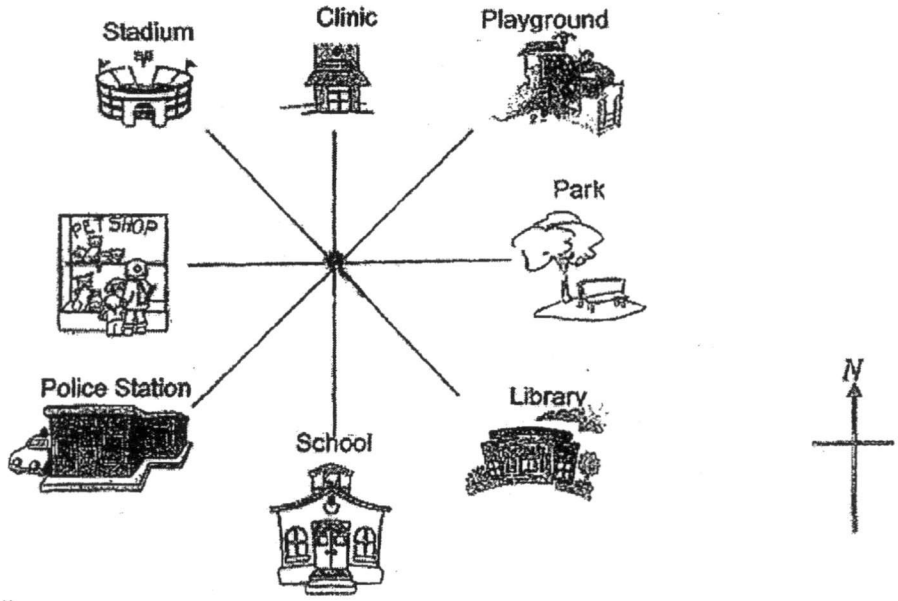
(1) 

(3) 

(2) 

(4) 

14. Iskandar is facing South-West after making a $\frac{3}{4}$ turn clockwise. Which direction was he facing at first?



(1) Library
(2) Stadium
(3) Police Station
(4) Playground

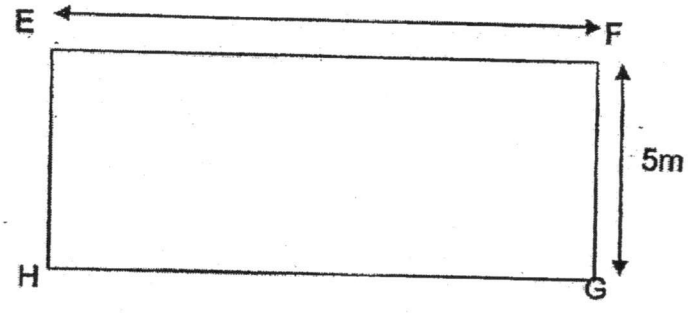
15. There were 8 448 people who attended a concert. There were three times as many women as men. How many **more** women than men were there at the concert?

(1) 2 112
(2) 2 816
(3) 4 224
(4) 5 632

16. Ai Ting bought 5 packets of marbles. Each packet contained 240 marbles. She repacked all the marbles into smaller bags of 8 marbles each. How many bags of marbles did she have?

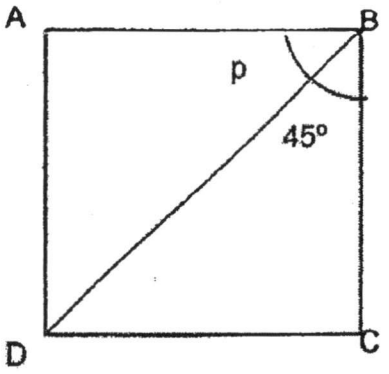
(1) 30
(2) 48
(3) 150
(4) 384

17. EFGH is a rectangle with perimeter 40 m. FG = 5 m.
What is the length of EF?



(1) 10 m
(2) 15 m
(3) 20 m
(4) 30 m

18. In the figure below, ABCD is a square. Which one of the following statements is **true**?



(1) $\angle ABD = \angle BAD$

(2) $\angle ADB = 45°$

(3) $\angle DAB$ is smaller than a right angle.

(4) $\angle BDC + \angle ADB$ is greater than a right angle.

End of Booklet A

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MATHEMATICS

BOOKLET B

Total Time

Sections A to C: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
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Name:_____ ( )

Class: Primary 4._____

Date: 5 May 2017

/36

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. Express all fractions in its simplest form.

19. Write 58 749 in words.

_____

20. Use the digits below to form the **smallest** 5-digit **even** number with the digit 8 in the tens place.

2	9	4	1	8

Ans: _____

21. List all the common factors of 24 and 56.

Ans: _____

22. What is the quotient when 6 073 is divided by 8?

Ans: _____

23. Sarah wants to have the choice of cutting a piece of ribbon into 4 cm or 6 cm exactly. What is the **shortest** length of ribbon she needs to buy?

Ans: _____cm

24. Subtract 45 tens from 56 thousands. Round your answer to the nearest **hundred**.

Ans: _____

25. Oranges were sold in bags of 6. Alex needs 2 662 oranges for a school function. What is the **least** number of bags he should buy?

Ans: _____

26. Mrs Raja has 56 pupils. She wants to give each pupil 2 cupcakes. Each cupcake costs 45 cents. How much will she need to pay for the cupcakes?

Ans: $_____

27. (a) Express $6\frac{2}{8}$ as an improper fraction.

(b) Express $\frac{86}{3}$ as a mixed number.

Give all your answers in its simplest form.

Ans: (a)_____

(b)_____

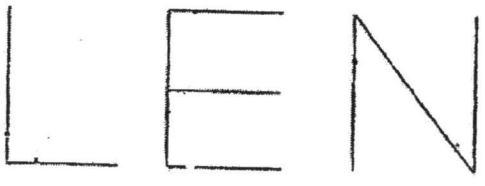
28. Subtract $\frac{4}{9}$ from $5\frac{4}{6}$. Give your answer in its simplest form.

Ans: _____

29. Look at the letters below. Identify:

(a) The total number of right angles

(b) The total number of acute angles



Ans: (a) _____

(b) _____

30. Arrange the following fractions in **decreasing** order.

$$2\frac{3}{4}, \quad \frac{11}{3}, \quad \frac{14}{5}$$

Ans: _____

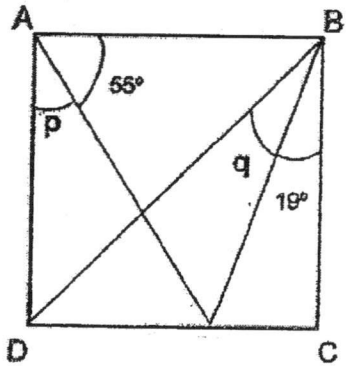
31. $\angle XYZ = 165°$. Draw the angle in the space below.
Mark the angle, $\angle XYZ$, and label YZ clearly.

32. Siti bought a tray of 30 eggs. She used 7 eggs to bake a cake. She fried 5 eggs for dinner. What fraction of the eggs was left? Give your answer in its simplest form.

Ans: _____

33. In the figure below, ABCD is a square.

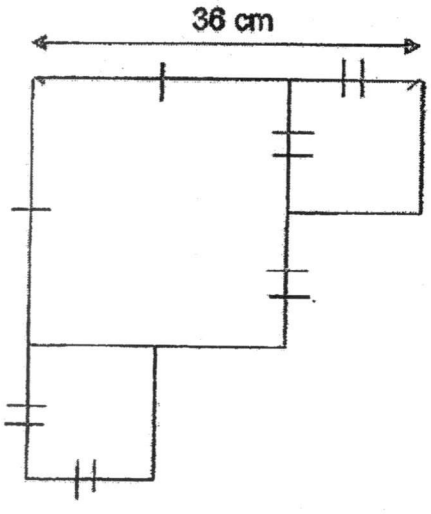
(a) Find $\angle$ p.
(b) Find $\angle$ q.



Ans: (a)_____°

(b)_____°

34. The figure below shows 1 big square and 2 smaller identical squares. The length of the big square is twice the length of the smaller square. Find the perimeter of the figure.



Ans: _____cm

35. Ali gave $375 per month to his wife. He gave $150 per month to his son. How much did he give his wife and son in half a year?

Ans: $_____

36. Emma spent $50 on books, $36 on food, $14 on stationery and had $25 left. What fraction of her money did she spend on books?

Ans: _____

End of Booklet B

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MID-YEAR EXAMINATION 2017
PRIMARY 4
MATHEMATICS

BOOKLET C

Total Time

Sections A to C: 1 hour 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: Primary 4 _____

Date: 5 May 2017

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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.

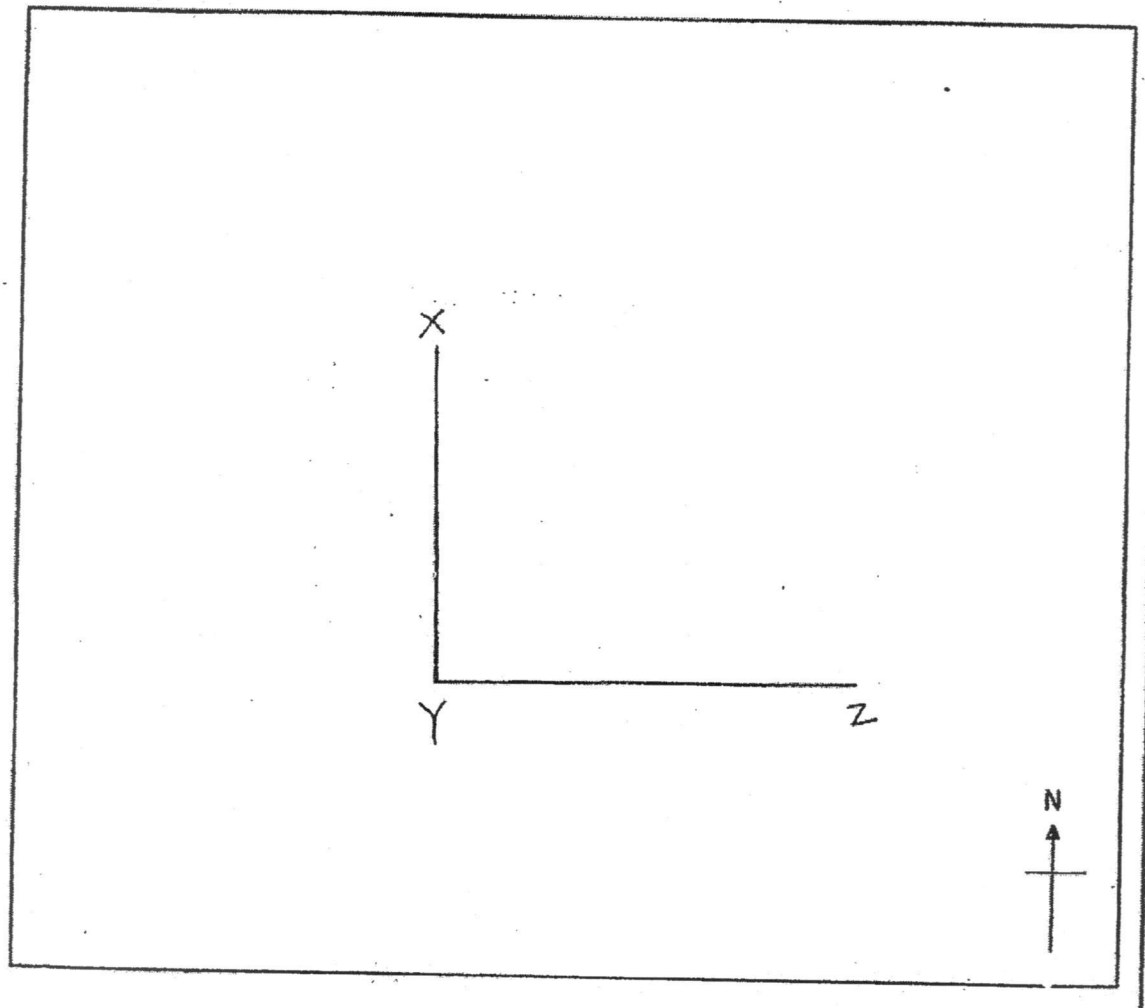
Do not write anything within this margin.

37. The figure below shows a map. Point X is **north** of Point Y on the map.

(a) The length of YZ on the map is 5 cm.
Construct and label point Z such that Z is **east** of Y.
Draw the two lines YZ and XZ. [2]

(b) In which direction is Point Z from Point X? [1]

(c) What is $\angle XZY$? [1]



Ans : (b) _____ [1]

(c) $\angle XZY$ = _____ [1]

38. Mr Ali had $7 200. He spent $\frac{1}{2}$ of his money on a television set and $\frac{1}{5}$ of it on a dining set. How much money had he left?

Do not write anything within th margin.

Ans: _____ [3]

39. Ken and George made 318 paper cranes altogether.
Ken and Siva made 852 paper cranes altogether.
Siva made 4 times as many paper cranes as George.
How many paper cranes did Ken make?

Do not write anything within this margin.

Ans: _____

40. A bag contains green, red and blue balls. There were three times as many red balls as blue balls, and twice as many green balls than red balls. There were 3 530 fewer blue balls than green balls.
How many more red balls than blue balls were there?

Do not write anything within this margin.

Ans: _____

41. Dorothy used $1\frac{2}{3}$ kg of flour to bake 10 muffins.

To bake a cake, she used $1\frac{1}{4}$ kg more flour than the amount used for the muffins.

(a) How much flour did she use to bake the cake?

(b) How much flour will she need to bake 20 muffins and a cake?
Give all your answers in the simplest form.

Do not write anything within this margin.

Ans : (a) _____ (1)

(b) _____ (3)

42. At the zoo, the total cost of one adult and two child tickets is $56.
The cost of a child ticket is $11 less than an adult ticket.
How much would Mr Lim have to pay for his whole family of 4 adults and 6 children?

Do not write anything within this margin.

Ans: _____

43 The number of females was 6 times the number of males at a stadium. After 946 females left and another 234 males arrived at the stadium, there was an equal number of females and males.
How many people were there at the stadium at first?

Do not write anything within this

Ans: _____ (4)

44. Mr David gave some cookies to his pupils.

If he gave each pupil 7 cookies, he would have 10 cookies left.

If he gave each pupil 9 cookies, he would be short of 4 cookies.

How many pupils did Mr David have?

Do not write anything within this margin.

Ans: _____ (3)

2017 EXAM PAPER

ANSWER SHEET

SCHOOL METHODIST GIRLS' SCHOOL (PRIMARY)
LEVEL PRI 4
SUBJECT MATH
TERM MID YEAR 2017

CONTACT

BOOKLET A

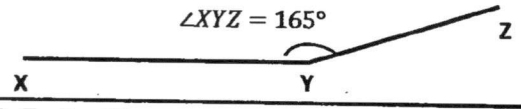
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	3	2	2	4	1	4	1	3

Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18
2	1	4	2	3	3	2	2

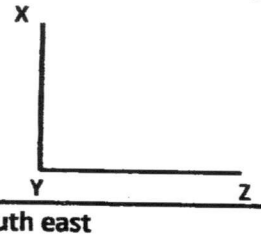
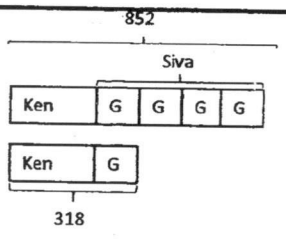
BOOKLET B

Q19	**Fifty-eight thousand, seven hundred and forty-nine**
Q20	**12984**
Q21	**2, 4, 8**
Q22	**759**
Q23	**6 cm**
Q24	56000 - 450 = 55550 nearest 100 = **55600**
Q25	2662 ÷ 6 = 443.67 number of bags to buy is **444**
Q26	total number of cupcakes needed for 56 pupils is 56 x 2 = 112 She will need to pay 112 x $0.45 = **$50.40**
Q27a	$6\frac{2}{8} = \frac{50}{8}$ $simplest\ form = \mathbf{\frac{25}{4}}$
Q27b	$\frac{86}{8} = 10\frac{6}{8}$ $simplest\ form = \mathbf{10\frac{3}{4}}$
Q28	$5\frac{4}{6} - \frac{4}{9}$ $= \frac{34}{6} - \frac{4}{9}$ $= \frac{102}{18} - \frac{8}{18}$ $= \frac{94}{18} = \frac{47}{9} = 5\frac{2}{9}$

BOOKLET B

Q29a	**5**
Q29b	**2**
Q30	$2\frac{3}{4}, \frac{11}{3}, \frac{14}{5}$ $\frac{11}{4}, \frac{11}{3}, \frac{14}{5}$ $\frac{165}{60}, \frac{220}{60}, \frac{168}{60}$ Decreasing order $= \frac{11}{3}, \frac{14}{5}, 2\frac{3}{4}$
Q31	
Q32	30 -7 - 5 = 18 $\frac{18}{30} = \frac{3}{5}$
Q33a	90 - 55 = **35**
Q33b	90 - 19 - 45 = **26**
Q34	36 + 36 + 12 + 12 + 12 + 12 + 12 + 12 = **144**
Q35	375 + 150 = 525 525 x 6 = **3150**
Q36	50 + 36 + 14 + 25 = 125 fraction of her money spend on books = $\frac{50}{125} = \frac{2}{5}$

BOOKLET C

Q37a	
Q37b	**South east**
Q37c	90°
Q38	Television set= $\frac{1}{2} \times \$7200 = \$3600$ Dining set= $\frac{1}{5} \times \$7200 = \$1440$ He had left \$7200-\$3600-\$1440=**\$2160**
Q39	 Siva : George = 4:1 Assuming number of paper cranes that George made was "G" 3G = 852 - 318 = 534 G = 534 ÷ 3 = 178 Number of paper cranes that Ken made = 318 - 178 = **140**

BOOKLET C

Q40

green : red : blue = 6 : 3 : 1

blue balls = 6 - 1 = 5, $\frac{3530}{5} = 706$

Red ball = 3 - 1 = 2, 706 x 2 = **1412**

Q41a

Amount of flour used to bake a cake

$= 1\frac{2}{3} + 1\frac{1}{4}$

$= \frac{5}{3} + \frac{5}{4}$

$= \frac{20}{12} + \frac{15}{12}$

$= \frac{35}{12} = 2\frac{11}{12}\ kg$

Q41b

20 muffins $= \frac{5}{3} + \frac{5}{3} = \frac{10}{3}$

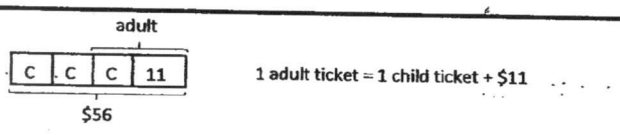
20 muffins and a cake

$= \frac{10}{3} + \frac{35}{12}$

$= \frac{40}{12} + \frac{35}{12}$

$= \frac{75}{12} = 6\frac{3}{12} = 6\frac{1}{4}$

Q42



cost different for 2 children = 11 x 2 = 22

total amount with full rate = 56 + 22 = 78

one adult cost 78 ÷ 3 = 26

one child cost 26 - 11 = 15

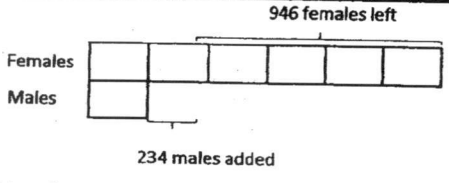
4 adult cost 26 x 4 = 104

6 children cost 15 x 6 = 90

whole family of 4 adult and 6 children

104 + 90 = **$194**

Q43



Number of females : Number of males in stadium = 6 : 1

After 946 females left and 234 males arrived,

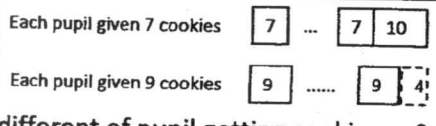
total number of people is 946 + 234 = 1180

As ratio of 1 : 1, 1180 ÷ 5 = 236

total number of people at the stadium at first is

236 x 7 = **1652**

Q44



different of pupil getting cookies = 9 - 7 = 2

different of cookies = 10 - (- 4) = 14

Number of pupils Mr David has:

14 ÷ 2 = **7 pupils**