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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2015
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 41 questions in this test. Answer all questions.
3. Time allowed is 50 minutes.
4. Write your answers in this Question-Answer Booklet.
5. Do not write in the margins.
6. Use of calculators is not allowed.
7. Do your rough work on the rough work sheet provided.
8. Write your School Code, Class and Class Number in the boxes below.

Instructions for answering questions:

- (a) Multiple choice questions – Blacken the circle next to the correct answer with an **HB pencil**.
For example:

- ☒ A
☐ B
☐ C
☐ D

- (b) Questions in which you are asked to “Show your working” – Write your mathematical expressions, answers and statements/conclusions in the spaces provided. There is NO need to show your rough work.

- (c) Other types of questions – Answer as required in the spaces provided.

School Code
學校編號

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Class
班別

6	
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Class
No.
班號

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↑
此格只許填寫一個大楷英文字母
Write one **capital letter** in this box

1. Which of the following numbers has the digit '6' in its thousands place?

- ☐ A. 26.015
- ☐ B. 260.15
- ☐ C. 2 601.5
- ☐ D. 26 015

2. 42 is a factor of

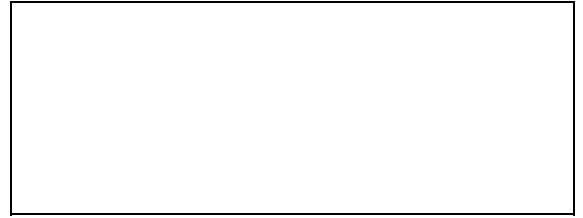
- ☐ A. 3.
- ☐ B. 7.
- ☐ C. 21.
- ☐ D. 84.

3. The Least Common Multiple (L.C.M.) of 4 and 46 is _____ .

4. The Highest Common Factor (H.C.F.) of 24 and 96 is _____ .

5. $\frac{17}{18}$ is * smaller than / equal to / larger than $\frac{16}{16}$.
(*Circle the answer)

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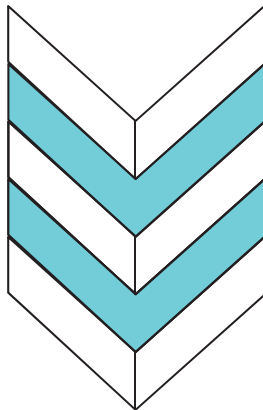


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6. The first common multiple of 12 and 20 is 60.
Which of the following numbers is their third common multiple?

- ☐ A. 4
- ☐ B. 120
- ☐ C. 180
- ☐ D. 240

7. Use a pencil to shade the figure below so that the shaded part is $\frac{7}{10}$ of the whole figure.



Please do not write in the margin.

8. (a) Change $5\frac{11}{30}$ into an improper fraction.

Answer:

- (b) Change $\frac{65}{9}$ into a mixed number.

Answer:

9. Which of the following fractions is the smallest?

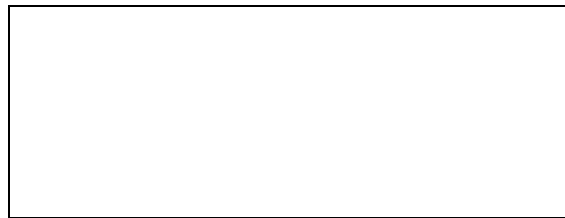
(Circle the answer)

$$\frac{17}{15} \quad , \quad 1\frac{1}{5} \quad , \quad \frac{17}{8}$$

10. Change 3.65 into a fraction and reduce it to the simplest form.

Answer:

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Please do not write in the margin.

11. $750 - 350 \div 5 =$

- ☐ A. 8
- ☐ B. 80
- ☐ C. 680
- ☐ D. 743

12. $10 \div 6 \times 42 =$ _____

13. $6\frac{1}{7} - 5\frac{1}{9} =$

14. $4\frac{2}{3} \div 1\frac{1}{7} =$

15. $20 \times 1.4 \times 0.9 =$ _____

16. $9.05 \div 0.5 =$ _____

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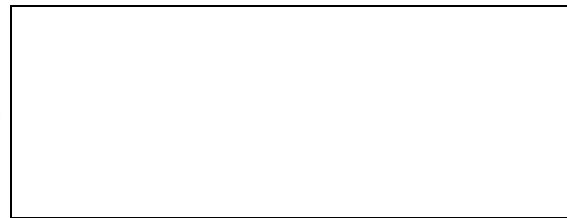
17. There are 242 pupils in Primary Six. $\frac{6}{11}$ of them are girls.

There are _____ boys in Primary Six.

18. One lap of the sports ground is $\frac{2}{5}$ kilometre long. After running 3 laps, Paul took a break. Then he ran another $\frac{3}{4}$ lap. How many kilometres did he run altogether?

(Show your working)

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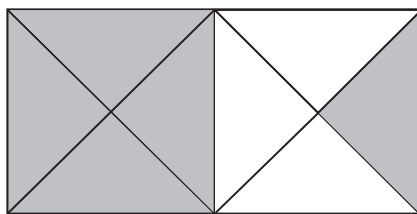
19. Green Company buys 30.5 kilograms of plastic bottles for 122 dollars.

Each kilogram of plastic bottles costs _____ dollars on average.

20. Originally a tea set costs 309 dollars. A discount of 19% will be given if payment is made in cash. Which of the following expressions is most suitable for estimating the amount of cash paid for a tea set?

- ☐ A. $300 \times 80\%$
- ☐ B. $400 \times 80\%$
- ☐ C. $300 \times 90\%$
- ☐ D. $400 \times 90\%$

21. What percentage of the whole figure below is shaded?



Answer: _____ % of the whole figure is shaded.

Please do not write in the margin.

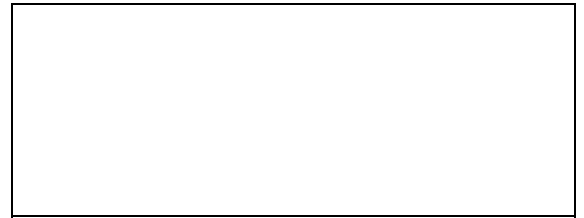
22. There are 80 vehicles in a car park. 15% of them are vans. The rest are private cars. How many private cars are there in the car park?
(Show your working)

23. Fill in the following blanks with suitable units.

- (a) The diameter of a round table is about 1 _____ .
- (b) The weight of a tube of toothpaste is about
75 _____ .
- (c) The capacity of a syringe is
20 _____ .



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24. The following is a calendar of February 2015.

February						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

(a) The 'Drama Night' is on the last Saturday of January 2015.

It is on the _____ of _____ .
(day) (month)

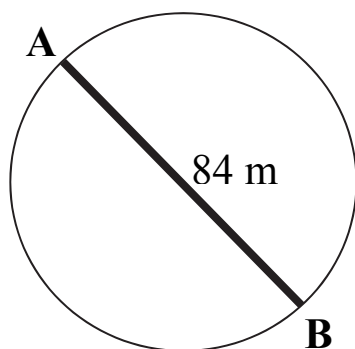
(b) 2015 is a * common year / leap year
because February has only _____ days.

(*Circle the answer)

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25.



The diagram above shows a circular lawn. A path of 84 m long joins points **A** and **B**. **AB** is a diameter.

- (a) Polly runs along the path to cross the lawn in 10.5 s.

What is her average speed?

(Show your working)

- (b) The circumference of the lawn is _____ m.

(Take π as $\frac{22}{7}$)

Please do not write in the margin.

26. Which of the following tools is most suitable for measuring the capacity of a spoon?



☐ A.



☐ B.

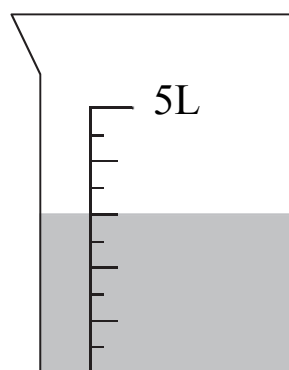
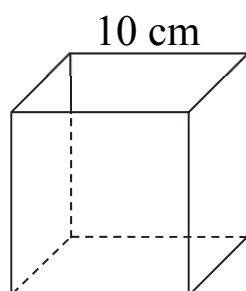


☐ C.



☐ D.

27.



The side of the cubic container above is 10 cm.

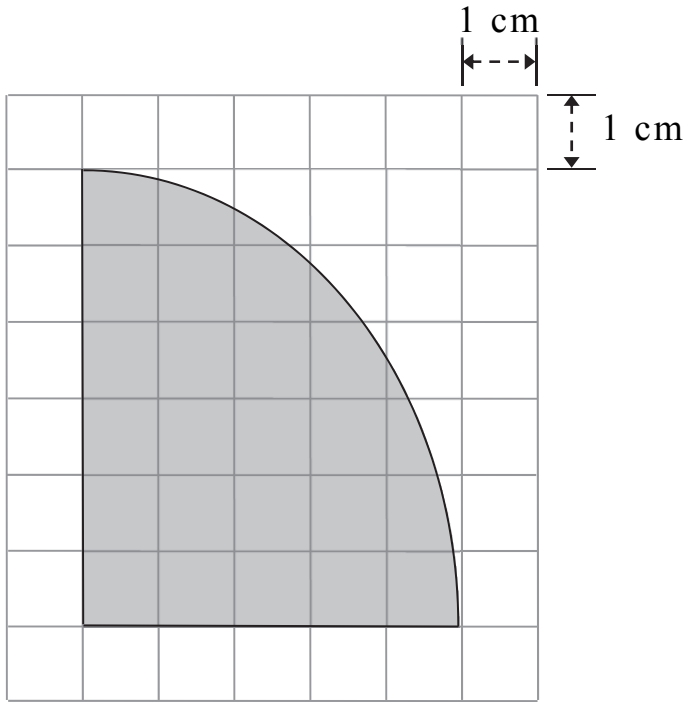
The water in the measuring cup can fill up

_____ cubic container(s) at most.

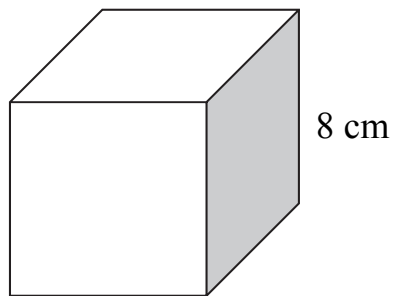
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28. In the following diagram, the side of each square is 1 cm.
The area of the shaded part is about _____ cm^2 .
(Give the answer as a whole number)



29.

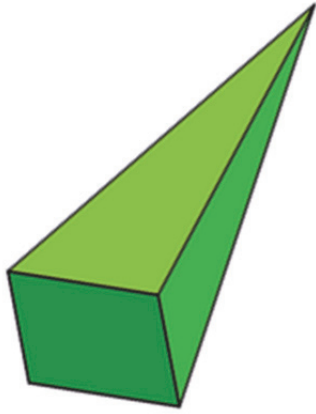


The cube above has _____ edges.
Its volume is _____ cm^3 .

Please do not write in the margin.

30. The average speed of the Peak Tram is about 15 _____. (Give a suitable unit)

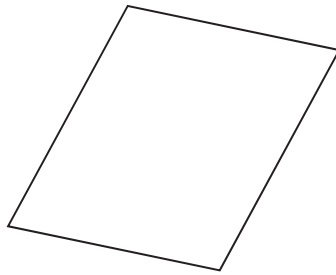
31.



The figure above is a * pyramid / prism .
(*Circle the answer)

It has _____ vertices.

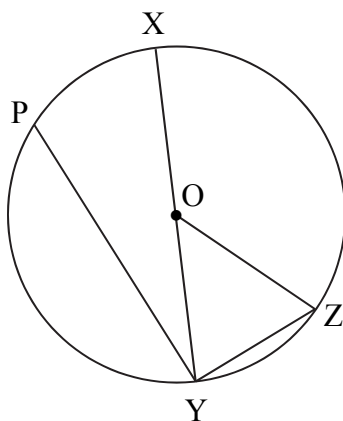
32.



The 2-D shape above is a
* parallelogram / rectangle / rhombus .
(*Circle the answer)

It has _____ pair(s) of opposite sides parallel.

33.

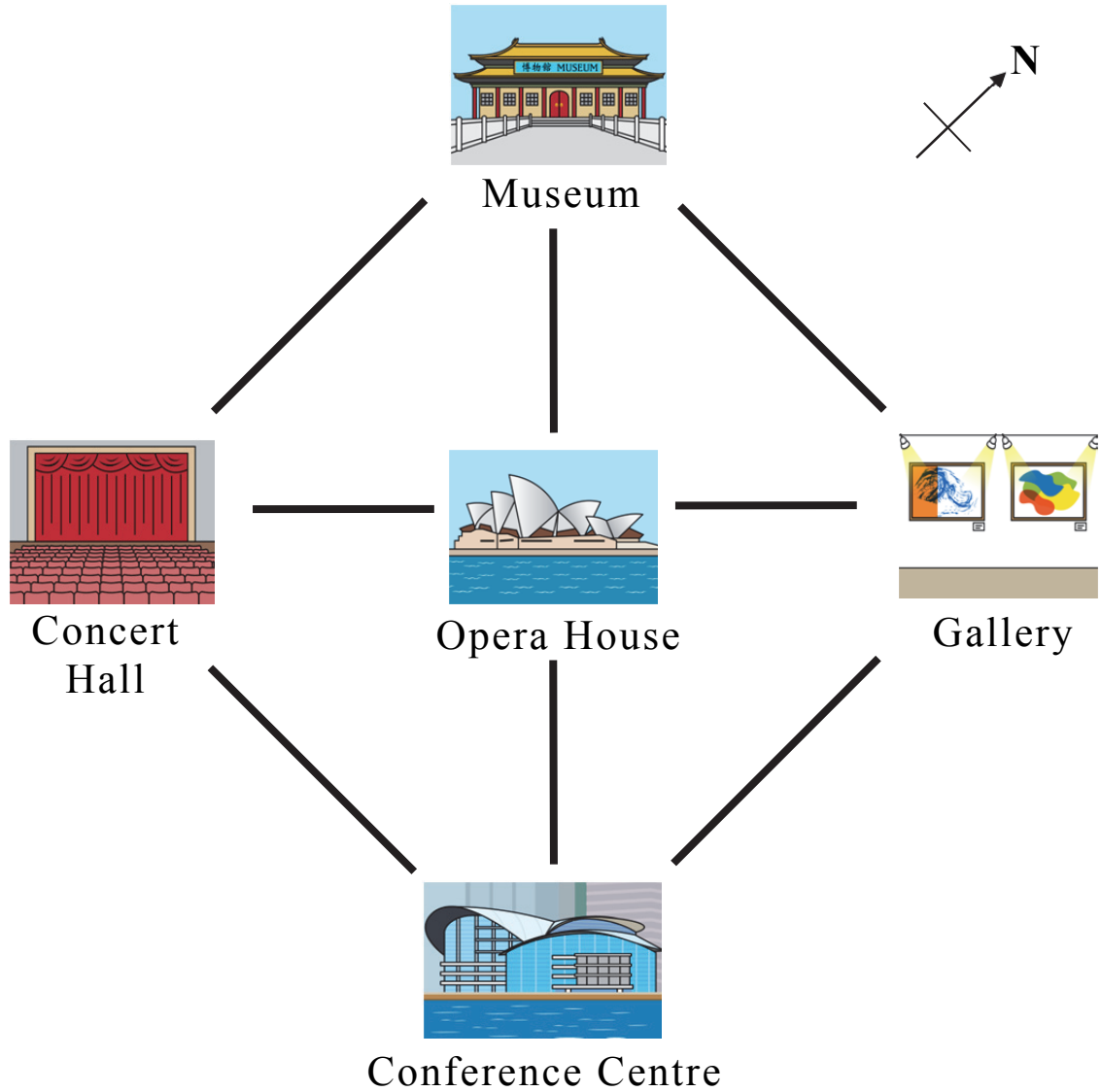


In the figure above, point O is the centre of the circle.

- (a) The straight lines OY, YZ and ZO form
 * an isosceles / a right-angled / an equilateral triangle.
 (*Circle the answer)
- (b) Which of the straight lines below is a diameter?
- ☐ A. PY
 - ☐ B. XY
 - ☐ C. YZ
 - ☐ D. ZO

34. A rhombus has _____ equal sides and
 _____ pair(s) of opposite sides parallel.

35. The map of Cultural Zone is shown below.



- (a) Gallery is to the _____ of Museum.
(direction)
- (b) Concert Hall is to the south-west of _____.
- (c) Starting from Conference Centre, Jimmy goes
_____ to reach Opera House. Then he turns
(direction)
_____ to reach Gallery.
(direction)

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36. Judy has 120 dollars of pocket money. She spends y dollars each day. How much does she still have after one week?

- ☐ A. $120 - 7y$
- ☐ B. $7y - 120$
- ☐ C. $120 - \frac{y}{7}$
- ☐ D. $(120 - y) \times 7$

37. $4k - 5 = 21$

$k =$

38. $2 + \frac{x}{5} = 5\frac{2}{5}$

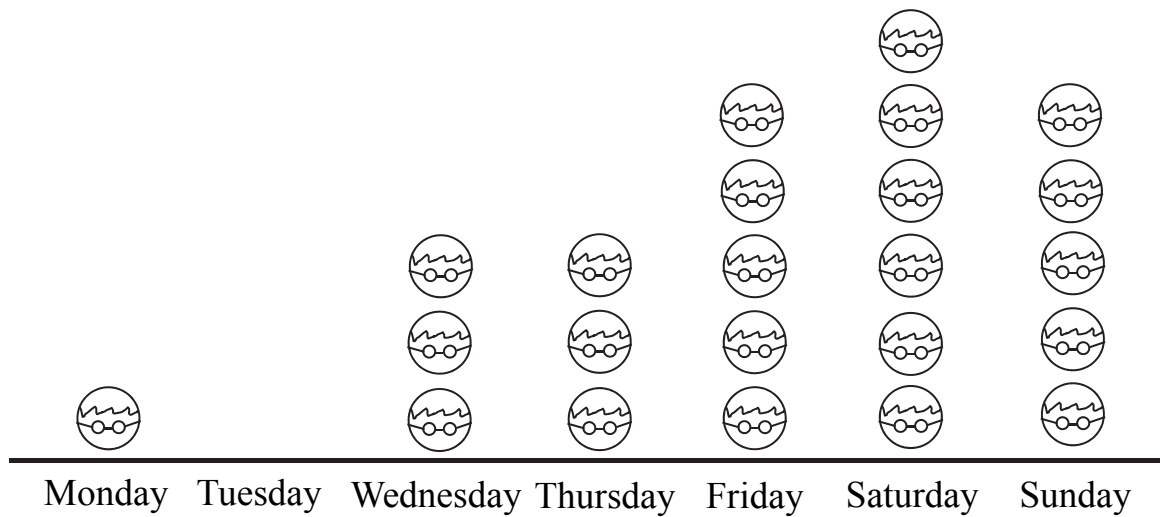
$x =$

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39. The following pictogram records the number of readers at the public library last week.

Number of Readers at the Public Library Last Week

Each  stands for 1 000 readers



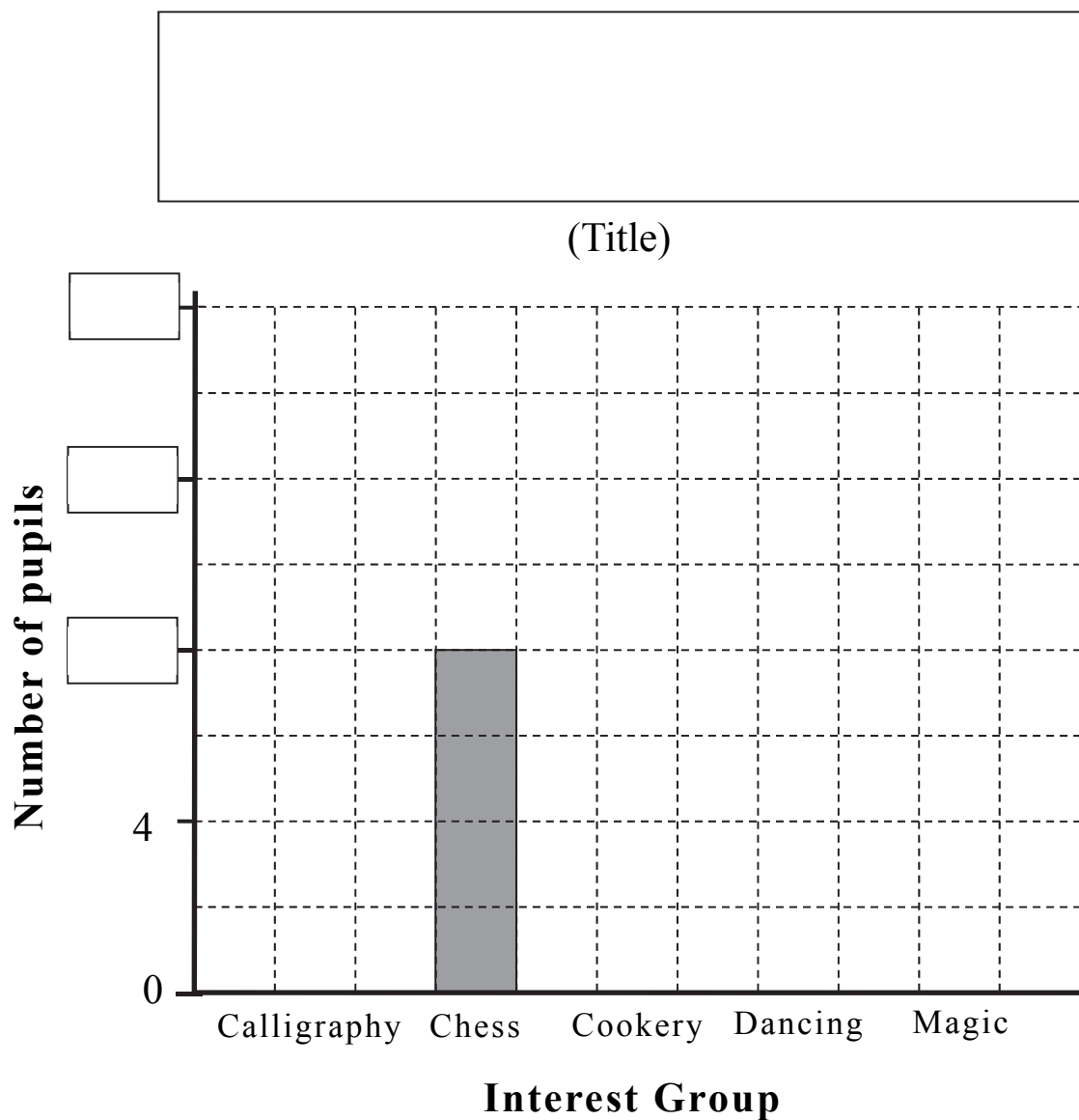
- (a) The public library had most readers
on _____. There were _____ readers.
(day of the week)
- (b) The total number of readers last week
was _____.
- (c) The public library was closed on one day last week.
That day was _____.
(day of the week)

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40. The table below shows the favourite interest groups of Class 6B pupils.

Interest Group	Calligraphy	Chess	Cookery	Dancing	Magic
Number of pupils	2	8	6	10	14

Use a pencil to complete the following bar chart according to the information above. Add the title and scales.



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Please do not write in the margin.

Please do not write in the margin.

41. Peter joined a singing contest. Five judges gave him the following scores:

7 , 8 , 9 , 9 , 10

Peter's average score was _____ .

— END OF PAPER —

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