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Education Bureau

Territory-wide System Assessment 2010

Primary 6

Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 44 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:

- (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/equations, 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

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| 6 | |
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Class No.
班號

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

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1. Arrange the following numbers in descending order.

8 570 , 7 085 , 8 705

Answer: _____ , _____ , _____
(Largest) (Smallest)

2. Which of the following numbers is a factor of 48?

- A. 48
- B. 96
- C. 144
- D. 192

3. Which of the following numbers are common multiples of 9 and 12? (circle the answers)

1

3

36

54

72

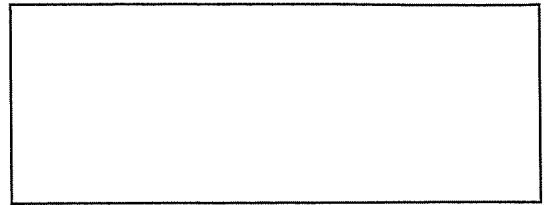
4. (a) List all the common factors of 28 and 42.


Answer: _____

- (b) The Highest Common Factor (H.C.F.) of 28 and 42 is _____ .

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5.  represents 1.
Use a fraction to show the following figure.



Answer:

6. Fill in each of the following boxes with the correct number.

(a)

$$\frac{6}{4} = \frac{\boxed{}}{20}$$

(b)

$$\frac{126}{42} = \frac{6}{\boxed{}}$$

7. In the number 647.538, the digit in the tenths place
is _____ .

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8. Which of the following fractions is the largest?

$$3\frac{3}{5} \quad , \quad 3\frac{3}{4} \quad , \quad 2\frac{1}{2}$$

Answer:

9. Change $\frac{11}{25}$ into a decimal.

Answer: _____

10. When 459 is divided by 19, the quotient is _____
and the remainder is _____.

11. $4\frac{3}{8} + 3\frac{3}{10} =$

12. $2\frac{1}{6} \div 1\frac{2}{3} =$

13. $0.6 \div 0.4 =$ _____

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14. Calculate $1.7 \div 3.2$ and correct the answer to two decimal places.

Answer: _____

15. Originally there were $1\frac{7}{8}$ kg of sticky rice. Mother bought $1\frac{2}{5}$ kg more. After $2\frac{1}{10}$ kg of sticky rice were used to make dumplings, kg were left. (give the answer as a fraction)

16. Before the Chinese New Year, Mrs Lee bought $3\frac{1}{3}$ kg of tea for \$200.

(a) Each kilogram of tea cost \$ _____ .

(b) The shopkeeper packed every $\frac{2}{3}$ kg of tea into one bag. How many bags were packed?
(show your working)

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17. The notebook fees are \$127.80 and the miscellaneous fees are \$35.50 for the second term. The total fees are _____ dollars and _____ cents.

18. Delia Restaurant started the lunch buffet at 11:00 in the morning.

LUNCH BUFFET
\$79.90 each

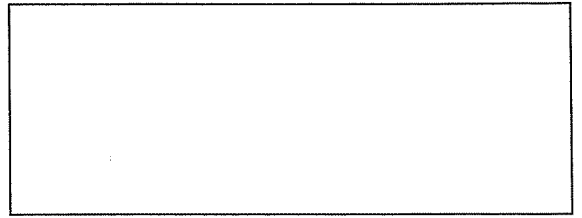
Pay the bill before 12:00 noon:
Less \$10 for each person

Mary and her mother had the lunch buffet and paid the bill at 11:50 a.m. If they paid with \$50 notes only, at least _____ \$50 notes were needed.

19. Which of the following expressions is most suitable for estimating the value of $2\frac{7}{8} \times 4.2 + 7.09$?

- A. $2 \times 4 + 7$
- B. $2 \times 4 + 8$
- C. $3 \times 4 + 7$
- D. $3 \times 4 + 8$

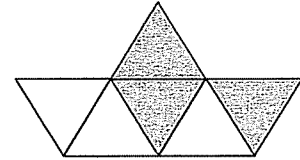
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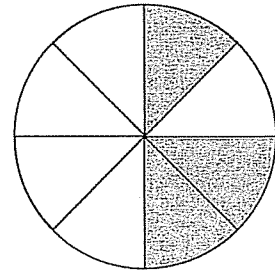
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20. Express the shaded parts of the following figures as percentages:

(a) The shaded part of the figure is _____ % of the whole.



(b) The shaded part of the figure is _____ % of the whole.



21. (a) Change 198% into a decimal.

Answer: _____

(b) Change 0.001 into a percentage.

Answer: _____ %

22. The original price of a digital camera is \$1 500. At a discount of 60% off, its selling price is \$ _____.

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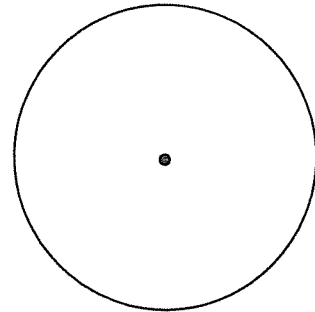
23. A coach departed at 8:50 a.m. and arrived at the destination at 9:15 a.m.

(a) The whole journey took _____ minutes.

(b) The average speed of the coach was 60 km/h. What was the distance covered?

(show your working)

24. The figure on the right is a circle and its centre.



(a) Draw a radius on the circle.

(b) Use a ruler to measure the length of the radius.

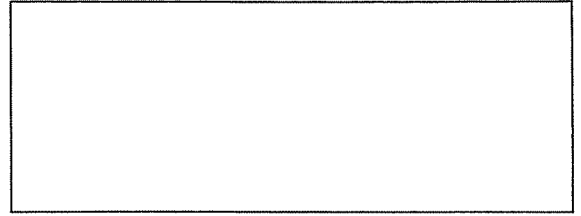
Answer: The length of the radius is about

_____ mm.

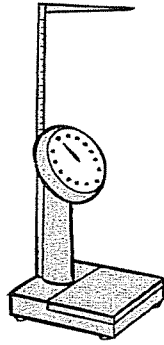
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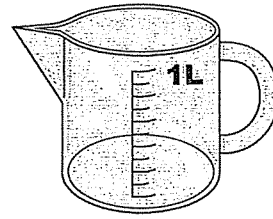
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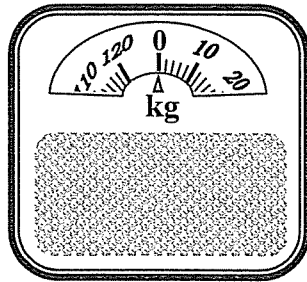
25. Which of the following tools is most suitable for measuring the weight of a can of soft drink?



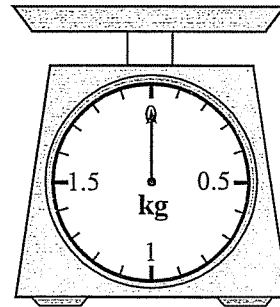
A.



B.



C.



D.

26. The diameter of a ring is 14 mm. Find its circumference.
(take π as $\frac{22}{7}$)

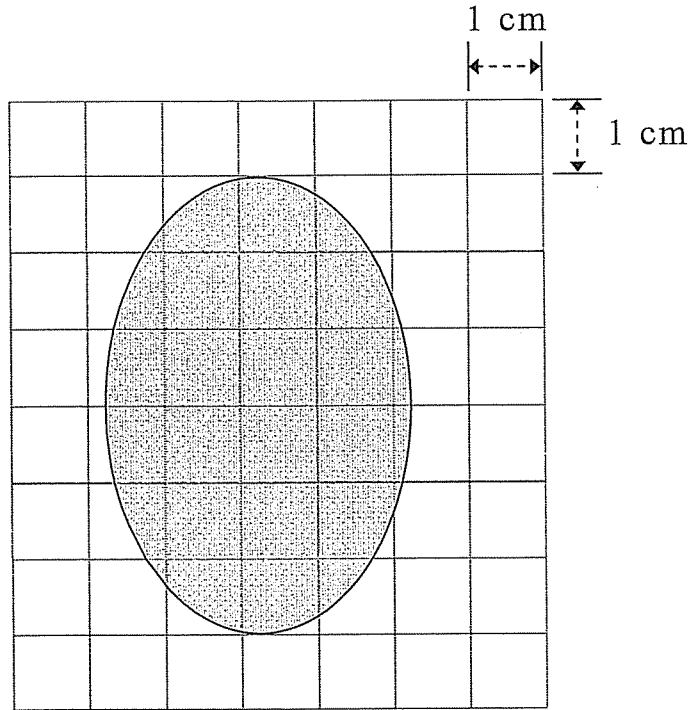
Answer: Its circumference is _____ mm.

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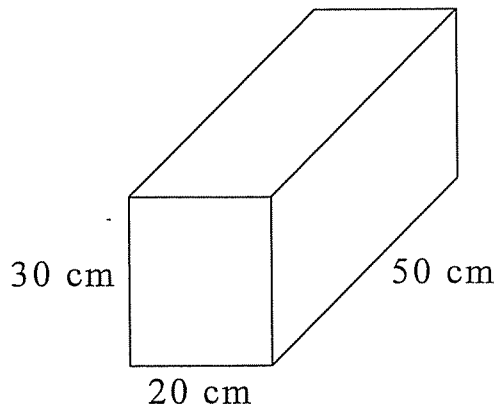
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27. In the diagram below, the side of each small square is 1 cm. The area of the shaded part is about _____ . (give the answer with a unit)



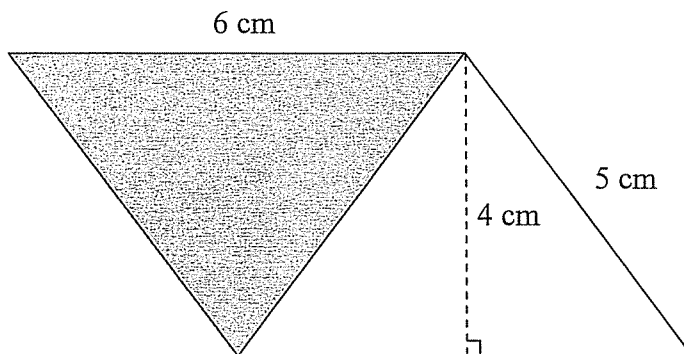
28.



The rectangular container above is 50 cm long, 20 cm wide and 30 cm high. Its capacity is _____ L.

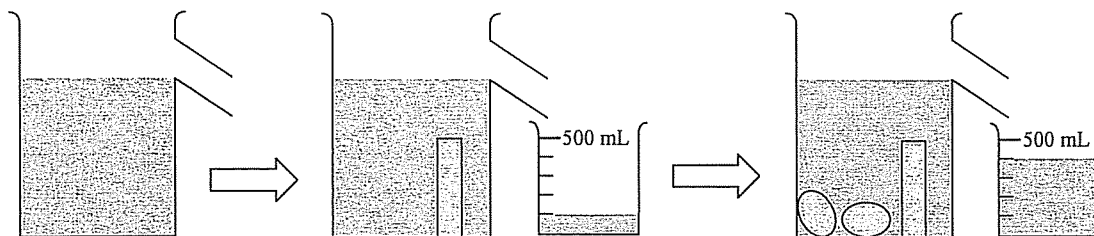
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29.



Find the area of the shaded part in the parallelogram above. (show your working)

30.



According to the diagram above, the volume of

each  is _____ cm^3 .

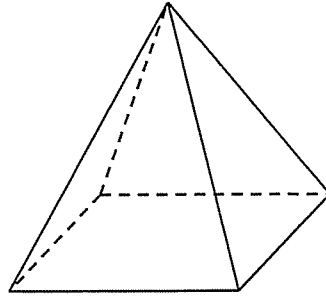
31. The average speed of a rocket is 742.5 metres per second.

In 10 seconds, the rocket travels _____ m.

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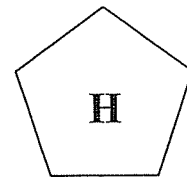
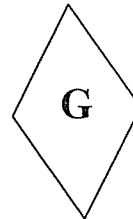
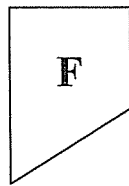
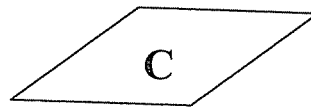
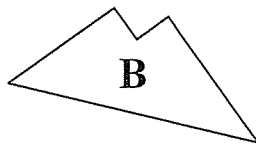
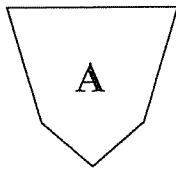
32.



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

It has _____ vertices and _____ edges.

33.



(a) Which of the shapes above is/are pentagon(s)? Write the letter(s) for the answer.

Answer: _____

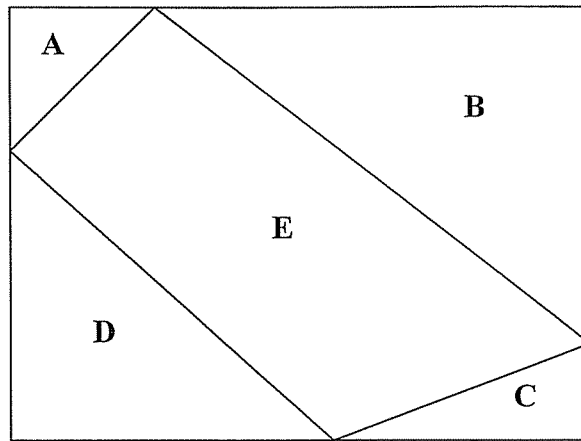
(b) Which of the quadrilaterals above has/have two pairs of parallel opposite sides? Write the letter(s) for the answer.

Answer: _____

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34.



The rectangle above is made up of shapes A, B, C, D and E.

(a) Shape E is a * quadrilateral / pentagon / hexagon .

(*circle the answer)

(b) Shape C is

* an isosceles / an equilateral / a right-angled triangle. (*circle the answer)

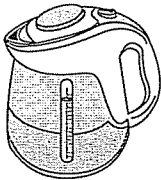
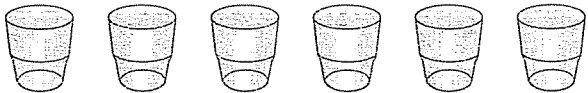
35.



of water can fill up



of water can fill up



of water can fill up



of water can fill up _____

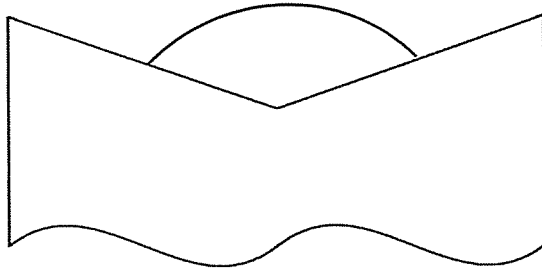


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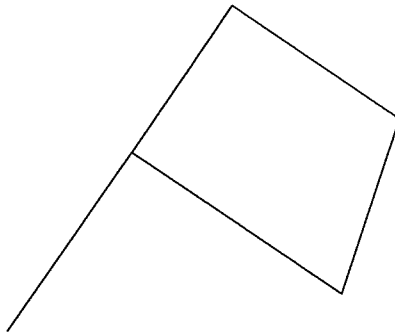
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36. Study the 2-D figures below.

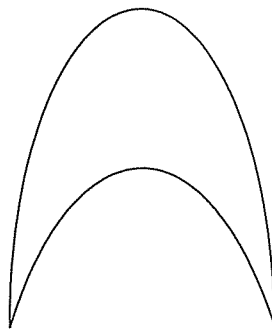
- (a) The figure below has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



- (b) The figure below has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)



- (c) The figure below has * straight lines / curves / parallel lines / perpendicular lines. (* circle all the answers)

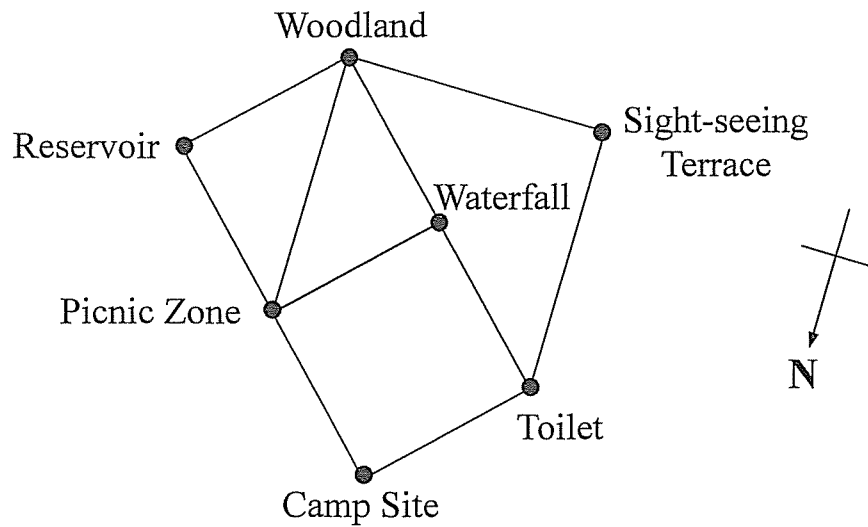


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37.

The Map of Country Park



(a) From the Camp Site, Joyce goes bird-watching in the Woodland.

She goes south-west to the _____ and then turns _____ to the Woodland.
(direction)

(b) From the Reservoir, Wilson goes to the Waterfall.

Firstly he goes to the _____. After passing (direction)
the _____, he turns _____ to the (direction)
Waterfall.

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Please do not write in the margin.

38. Which of the following stands for '9 is divided by y and then minus 5'?

- A. $\frac{y-5}{9}$
- B. $\frac{9}{y} - 5$
- C. $\frac{9}{y-5}$
- D. $\frac{y}{9} - 5$

39. $\frac{B}{8} - 7 = 3$

$B =$

40. $23.4 = 1 + 7x$

$x =$

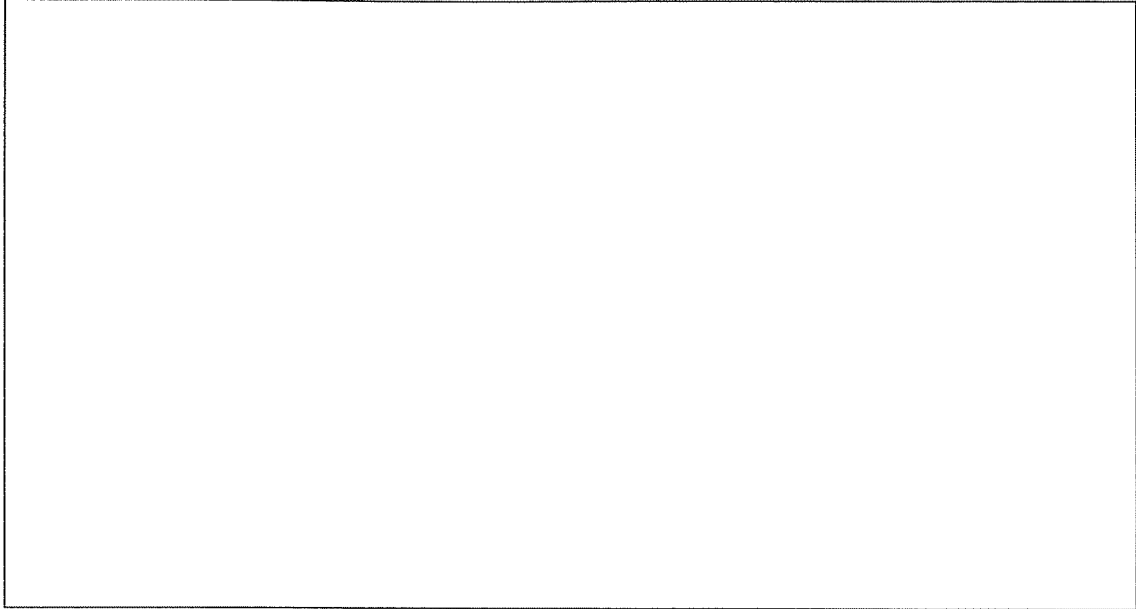
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41. A number is multiplied by 12 and then 3 is added. The result is 75. Find the number by the method of solving an equation.

(show your working)



42. Find the average of the five numbers below.


0 , 10.5 , 10 , 9.5 , 20

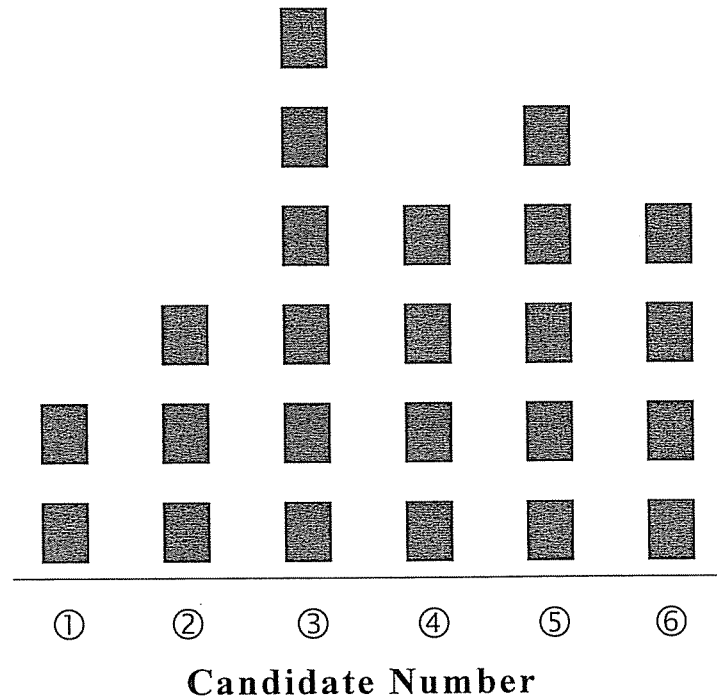
Answer: The average is _____ .

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43. The following shows the result of a district council election. Each elector can choose one candidate only.

The Result of District Council Election

Each  stands for 1 000 votes



- (a) The two candidates who receive the two largest numbers of votes win the election. Their candidate numbers are _____ and _____ .
- (b) The number of electors who have voted is _____ .
- (c) The total number of electors in the district is 48 000. The number of electors who have voted is _____ % of the total number of electors in the district.

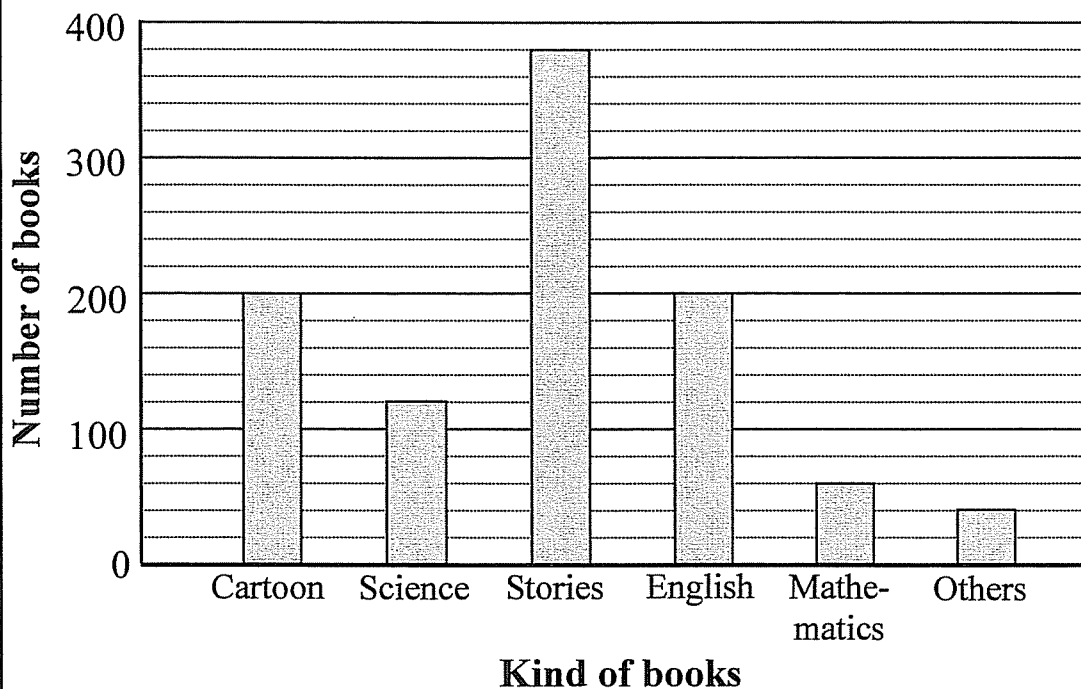
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44. Children Bookstore counts the number of each kind of books. The result is as follows:

Number of each kind of books in Children Bookstore



- (a) The total number of books in Children Bookstore is _____ .
- (b) A primary school orders 200 mathematics books from Children Bookstore. How many more mathematics books are needed?

Answer: _____ more mathematics books are needed.

— END OF PAPER —

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