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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2011
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 42 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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↑
Write one **capital letter** in this box
此格只許填寫一個大楷英文字母

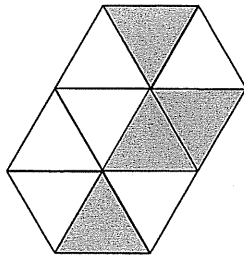
1. Write the number 12 905 in words.

Answer: _____

2. Which of the following numbers is a common multiple of 12 and 18?

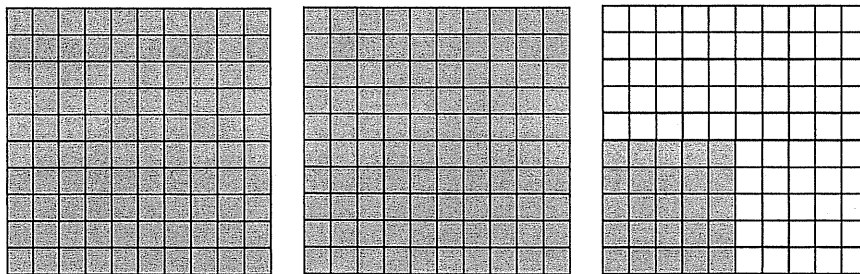
- ☐ A. 6
☐ B. 12
☐ C. 18
☐ D. 72

3. Express the shaded part as a fraction of the whole figure below.



Answer: The shaded part is of the whole figure.

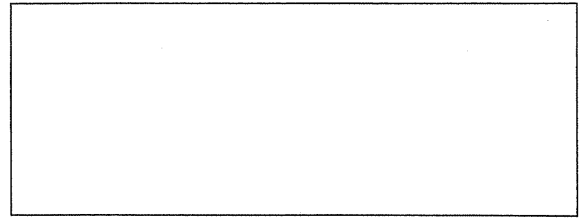
4.



The above diagram shows three large squares. Each large square represents 1. Use a decimal to show the shaded part of the above diagram.

Answer: _____

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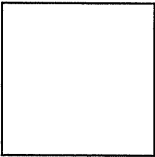
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5. Change $2\frac{1}{6}$ into a decimal and correct the answer to two decimal places.

Answer: _____

6. $16 \times 257 =$ _____

7. When 610 is divided by 25, the quotient is _____ and the remainder is _____.

8. $2\frac{1}{7} \times \frac{2}{3} =$ 

9. $\frac{1}{3} + \frac{1}{3} \div \frac{2}{3} =$

- ☐ A. $\frac{4}{9}$
☐ B. $\frac{5}{9}$
☐ C. $\frac{5}{6}$
☐ D. 1

Please do not write in the margin.

10. $1.64 \div 0.8 =$ _____

11. $7.2 \times (10 - 2.8) =$ _____

12. 960 pieces of chalk are packed into boxes. Each box contains 24 pieces.

Each class is given 5 boxes of chalks. The boxes of chalks can be shared among _____ classes.

13. A school has 432 boys and 288 girls. What fraction of the pupils are girls?

Answer:

14. A candy weighs 4.5 g.

18 candies weigh _____ g.

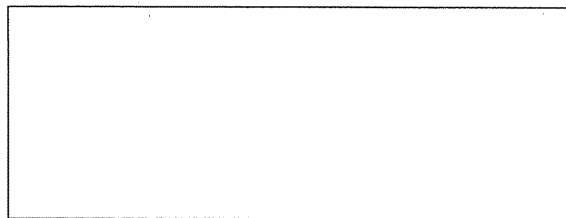
15. (a) Fill in the boxes with suitable numbers.

$\frac{1}{2}$ is larger than $\frac{\boxed{}}{\boxed{}}$.

- (b) $\frac{6}{6}$ is * smaller than / equal to / larger than 6.

(*Circle the answer)

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16. A 0.35 L can and a 1.25 L carton of orange juice just fill up 8 cups of equal capacity. What is the capacity of each cup?

(Show your working)

17. John had pocket money of 828 dollars. He spent 241 dollars. Then his mother gave him 100 dollars.

Which of the following expressions is most suitable to estimate the amount of John's pocket money now?

- ☐ A. $820 - 240 + 100$
- ☐ B. $820 - 250 + 100$
- ☐ C. $830 - 240 + 100$
- ☐ D. $830 - 250 + 100$

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18. A loaf of bread costs \$13.80. A carton of milk costs \$5.70. Kelvin buys a loaf of bread and a carton of milk.

(a) If Kelvin pays with 50-cent coins only, he should give _____ coins altogether.

(b) Give a disadvantage of paying with 50-cent coins only.

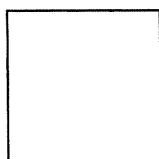
Answer: _____

19. (a) Change $2\frac{1}{10}$ into a percentage.

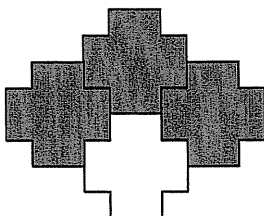
Answer: _____ %

(b) Change 55% into a fraction and reduce it to the simplest form.

Answer:

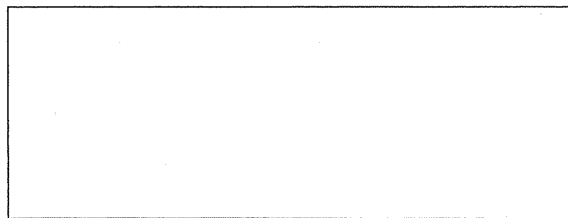


20.



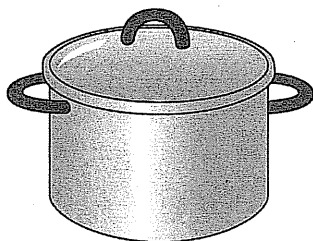
The shaded part of the figure above is _____ % of the whole.

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21.

All Goods Sold at **15% Off**



\$95



\$45

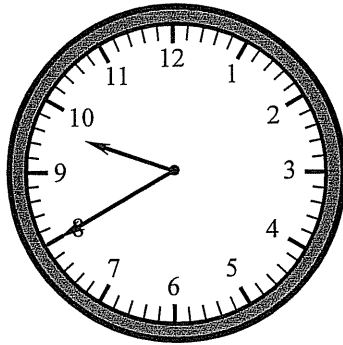
Mrs Chan buys a pot and a knife. How much should she pay?

(Show your working)

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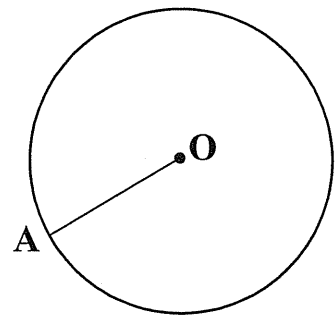
22. Vivian ordered a pizza in the evening. The clock showed the time when the order was made.



- (a) Vivian ordered the pizza at _____ minutes to _____ in the * morning / afternoon.
(*Circle the answer)
- (b) Vivian received the pizza half an hour after the order was made. In '24-hour time', she received the pizza at _____ : _____.

23. The figure on the right is a circle. **OA** is its radius.

- (a) **O** is the _____ of the circle.

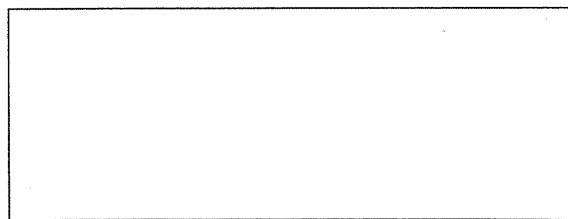


- (b) Use a ruler to measure the length of **OA**.

Answer: The length of **OA** is about _____ mm.
(Give the answer as a whole number)

- (c) The length of a diameter is _____ times the length of **OA**.

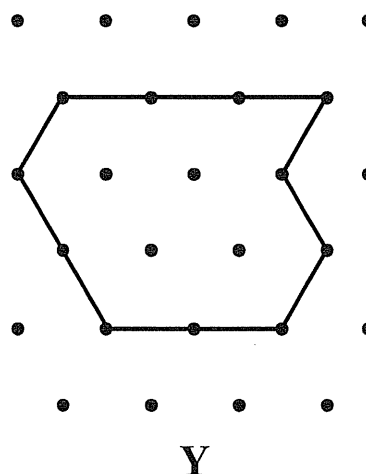
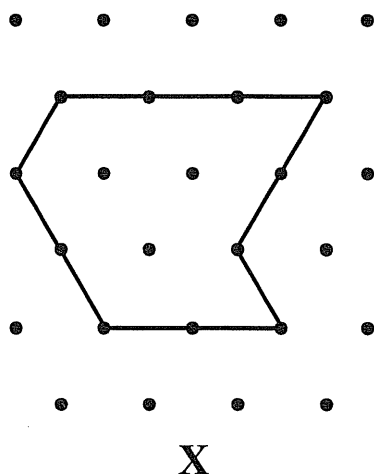
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24. Fill in each blank with a suitable unit of measurement.

- (a) The height of a child is about 1.2 _____.
- (b) The weight of ten pencils is about 200 _____.
- (c) The capacity of a bowl is about 500 _____.

25.



Study the diagrams above. Which of the following statements is correct?

- ☐ A. The perimeters of **X** and **Y** are the same.
- ☐ B. The perimeter of **X** is longer than that of **Y**.
- ☐ C. The perimeter of **Y** is longer than that of **X**.
- ☐ D. The perimeter of **X** and **Y** cannot be compared.

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26.

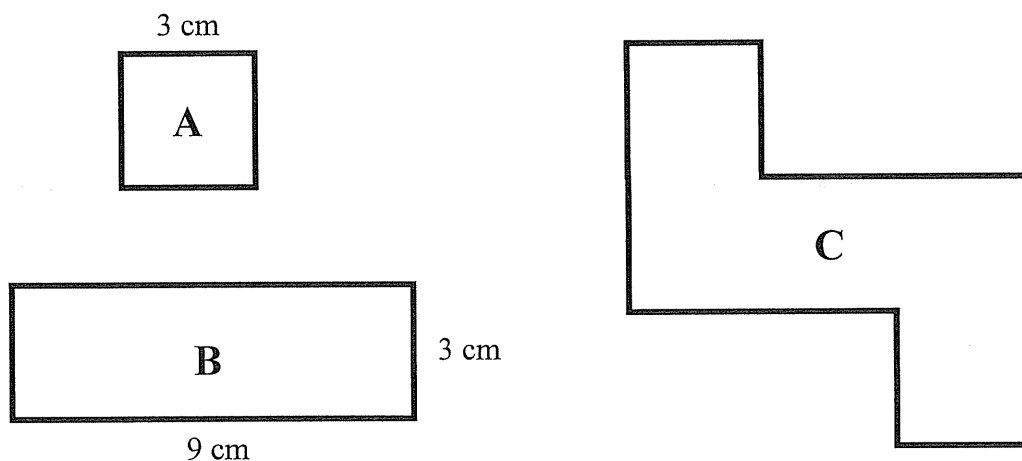


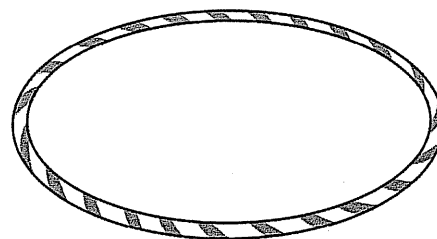
Figure C is made up of two squares A and a rectangle B.

- (a) The perimeter of a square A is _____ cm.
- (b) The perimeter of a rectangle B is _____ cm.
- (c) The perimeter of Figure C is _____ cm.

27. The diameter of a hula hoop is $\frac{7}{10}$ m.

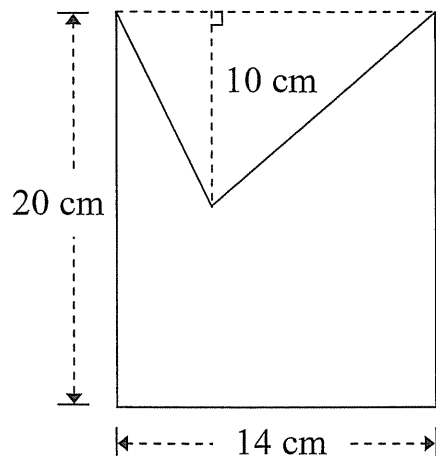
Find the circumference.

(Take π as $\frac{22}{7}$)



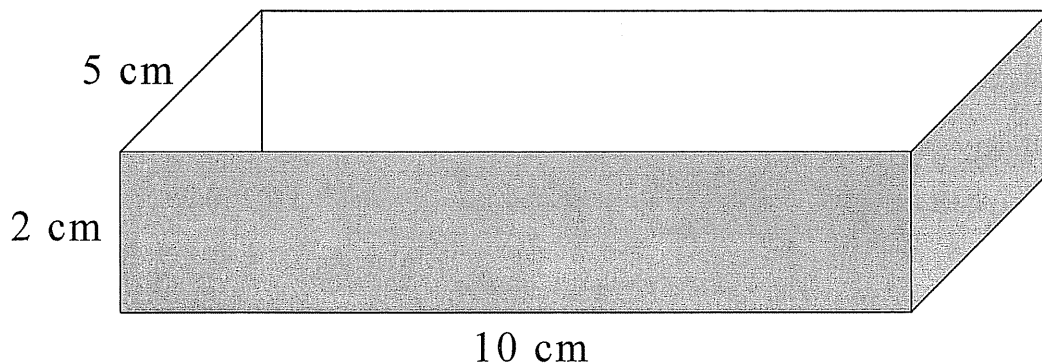
Answer: The circumference is m.

28.



A triangle is cut away from a piece of rectangular paper.
What is the area of the remaining part?
(Show your working)

29.



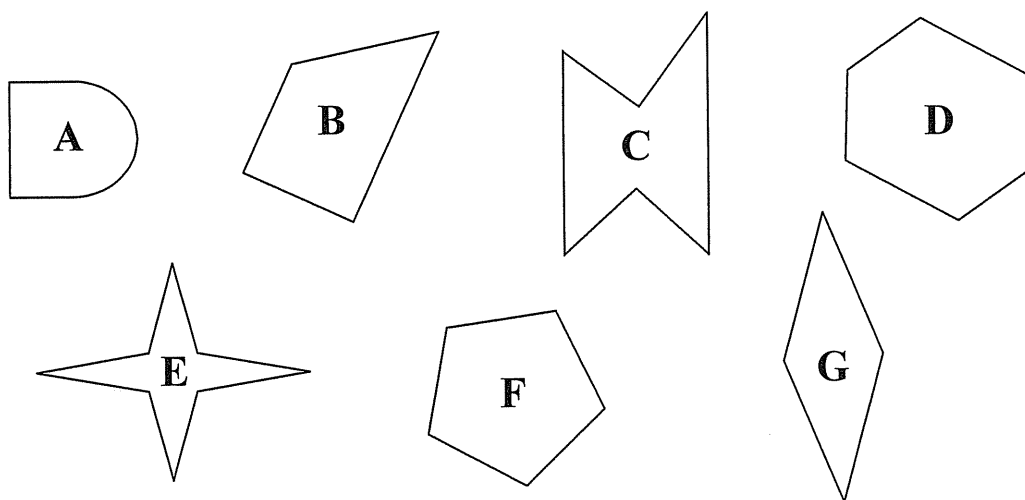
The capacity of the above rectangular container
is _____ L.

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30. Janice swims at a speed of 2 m/s. She finishes 25 m
in _____ seconds.

31.



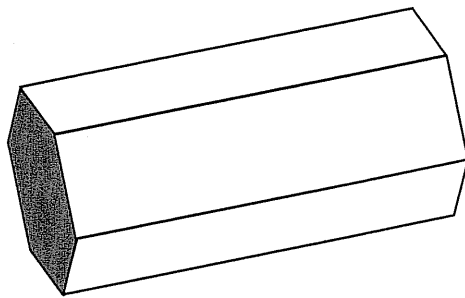
- (a) Which of the 2-D shapes above is / are hexagon(s)?
Write the letter(s) for the answer.

Answer: _____

- (b) Which of the 2-D shapes above is / are
quadrilateral(s)? Write the letter(s) for the answer.

Answer: _____

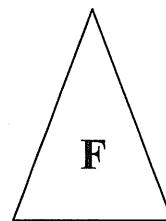
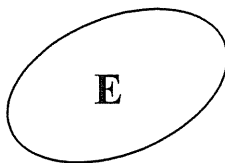
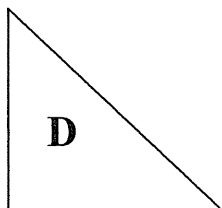
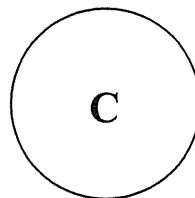
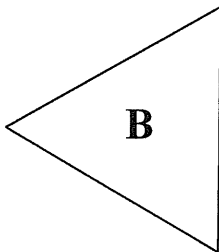
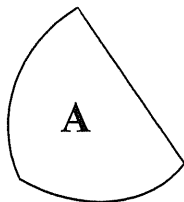
32.



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

It has _____ faces and _____ edges.

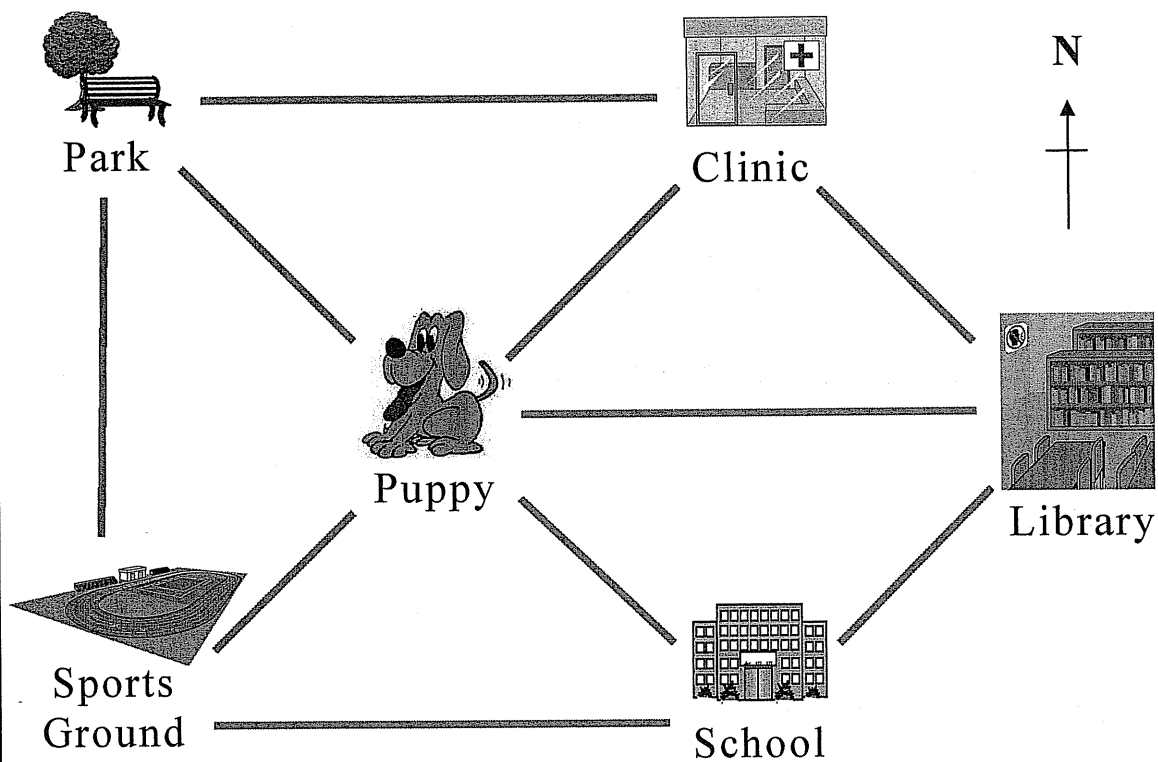
33. Study the following 2-D shapes. Write the letter(s) for the answers.



(a) Circle: _____

(b) Equilateral triangle: _____

34.



(a) Sports Ground is to the _____ of Clinic.
(direction)

(b) Starting from School, Vivian goes _____ to Library.
(direction)

(c) Puppy is to the south-east of _____ .

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35. Which of the following stands for ' p is divided by 4 and then plus 2'?

- ☐ A. $\frac{p}{4 + 2}$
- ☐ B. $\frac{p}{4} + 2$
- ☐ C. $\frac{p + 2}{4}$
- ☐ D. $\frac{4}{p} + 2$

36. Which of the following are equations? Write the letters for the answer.

- A. $20 + 7B$
- B. $30 - 2 = 28$
- C. $84 = 7 \times 12P$
- D. $7 + 2 = 3e$
- E. $(3C + 5) \times 2$

Answer: _____

37. $50n = 3$

$n =$


38. $14 + \frac{A}{2} = 20$

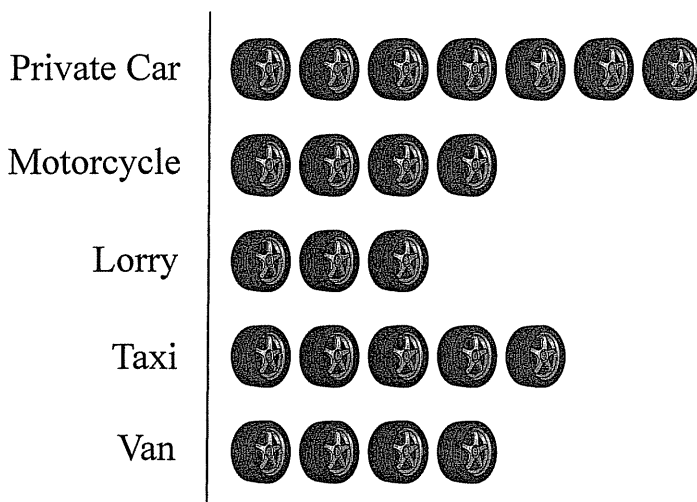
$A =$

39. Linda spends \$354 on a schoolbag. The price of the schoolbag is $\frac{4}{5}$ of her pocket money plus \$6. Find the original amount of Linda's pocket money by the *method of solving an equation*. (Show your working)

40. The following pictogram shows the number of different types of vehicles parked in Grand Car Park yesterday.

**Number of Different Types of Vehicles
Parked in Grand Car Park Yesterday**

Each  stands for 10 vehicles

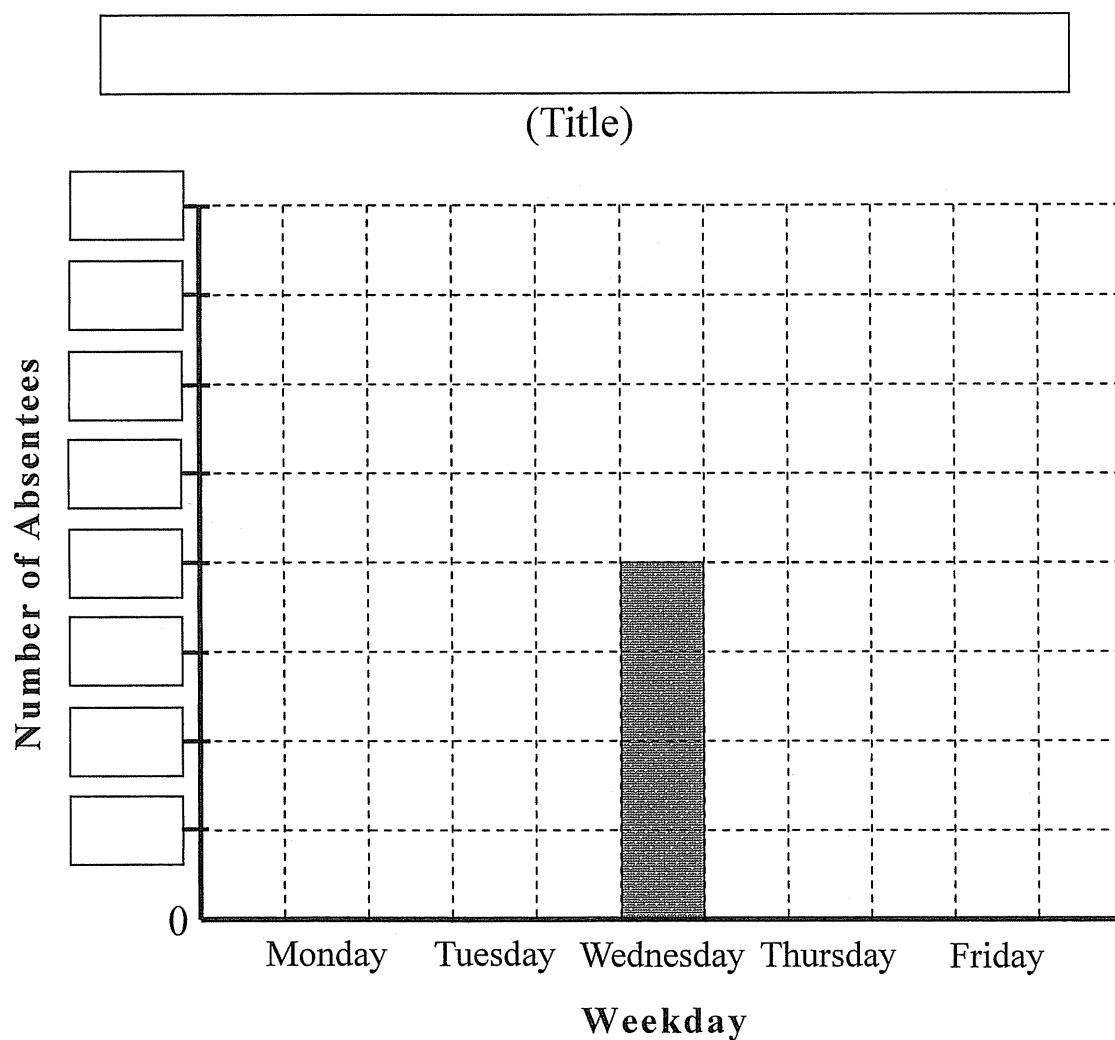


- (a) Among the five types of vehicles parked in Grand Car Park yesterday, _____ was the fewest. The number of the fewest type was _____ only.
- (b) Same number of _____ and _____ were parked in Grand Car Park yesterday.
- (c) The total number of vehicles parked in Grand Car Park yesterday was _____ .

41. The following table shows the number of absentees of a school last week.

Weekday	Monday	Tuesday	Wednesday	Thursday	Friday
Number of absentees	14	4	8	6	8

According to the data above, complete the following bar chart and give it a suitable title.



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42. Find the average of the five numbers below.

20 , 19.5 , 100 , $10\frac{1}{2}$, 100

Answer: The average is _____ .

— END OF PAPER —

