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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 43 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. Which of the following numbers has the digit '3' in the ten thousands place and the digit '9' in the tens place?

☐ A. 3 009
☐ B. 30 090
☐ C. 30 900
☐ D. 39 000

2. Which of the following numbers is a multiple of 20?

☐ A. 4
☐ B. 5
☐ C. 10
☐ D. 20

3. List all the factors of 46.

Answer: _____

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

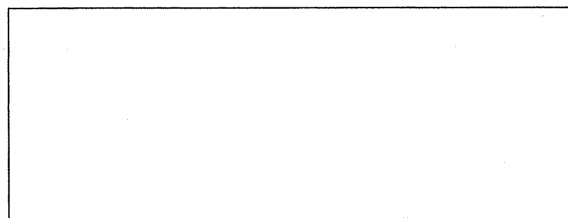
(a)

$$\begin{array}{r} 18 \\ \hline \square \end{array} = 2$$

(b)

$$\begin{array}{r} \square \\ \hline 12 \end{array} = 5$$

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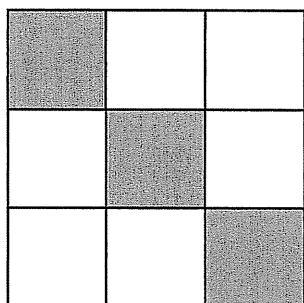


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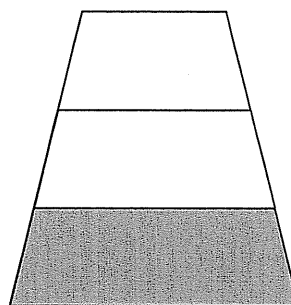
5. (a) Within 30, all the common multiples of 2 and 7
are _____.

(b) The Least Common Multiple (L.C.M.) of 2 and 7
is _____.

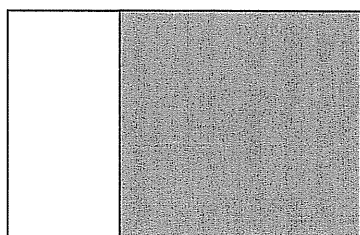
6. Which of the following figures has $\frac{1}{3}$ of the whole shaded?



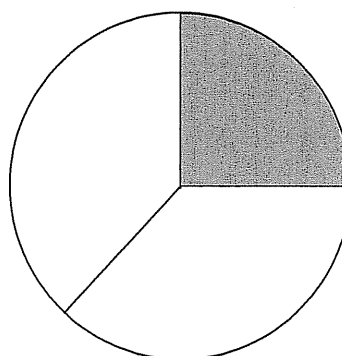
☐ A.



☐ B.



☐ C.



☐ D.

Please do not write in the margin.

7. (a) Change $2\frac{3}{5}$ into an improper fraction.

Answer:

- (b) Change $\frac{93}{9}$ into a mixed number.

Answer:

8. Which of the following fractions is the largest?

$$\frac{2}{9} \quad , \quad \frac{8}{27} \quad , \quad \frac{8}{15}$$

Answer:

9. In the number 1.28, the digit '2' is in
the _____ place.

10. $364 - (264 + 73) =$ _____

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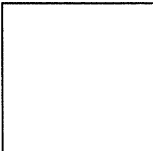


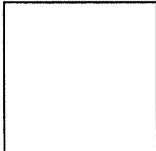
Please do not write in the margin.

11. In the number 193.8, which digit stands for the smallest value?

- ☐ A. '1'
- ☐ B. '3'
- ☐ C. '8'
- ☐ D. '9'

12. $20 \div 6 \times 42 =$ _____

13. $6\frac{3}{5} - 5\frac{2}{3} =$ 

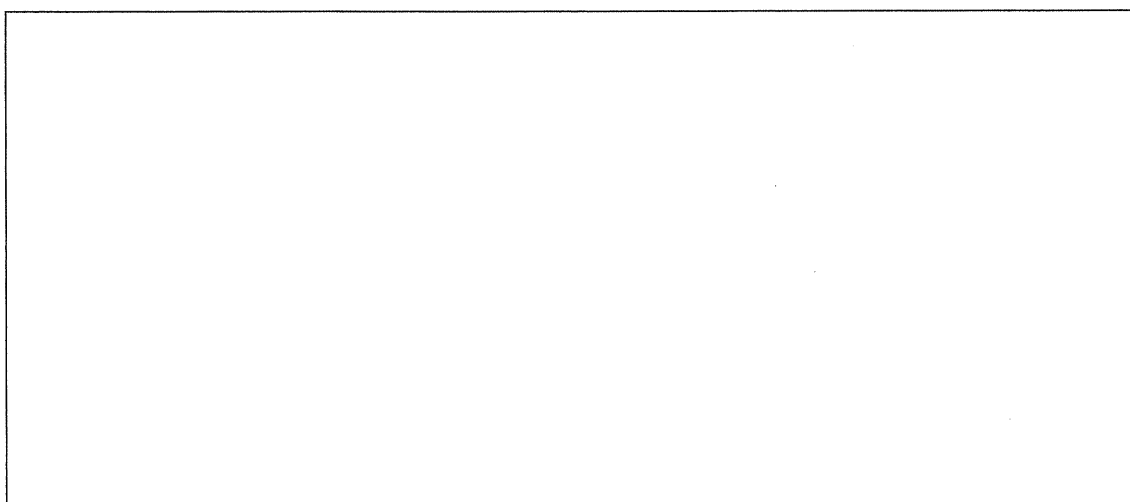
14. $\frac{3}{8} \times \frac{4}{9} \div 4 =$ 

15. $10.11 + 7.95 - 2.16 =$ _____

16. $35 \times 0.2 \times 8.7 =$ _____

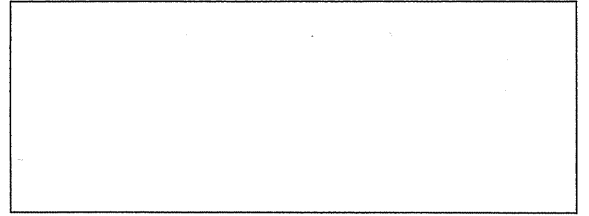
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17. In a mathematics test, Mary gets 91 marks. Peter's mark is $\frac{9}{13}$ of Mary's. He gets _____ marks.
18. There are originally 105 marbles in a bottle. Paul takes out 35 marbles. What fraction of the original number of marbles does Paul take out?
(Show your working)



19. 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: _____

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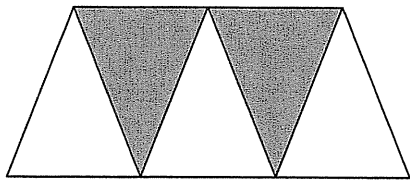
Please do not write in the margin.

20. A bun costs \$3.40 and a carton of juice costs \$4.80.
Karen buys two buns and a carton of juice. She should
pay _____ .
(Give the answer with suitable unit(s))

21. David ran $5\frac{3}{4}$ laps of the sports ground in 15.8 minutes.
Which of the following expressions is most suitable to
estimate the average time in seconds for David to finish
one lap?

- ☐ A. $15 \times 60 \div 5$
☐ B. $15 \times 60 \div 6$
☐ C. $16 \times 60 \div 5$
☐ D. $16 \times 60 \div 6$

22.

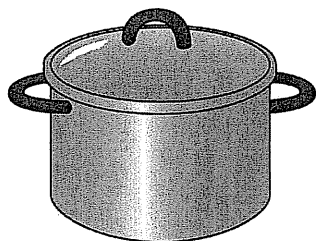


The shaded part of the figure above is _____ % of
the whole.

Please do not write in the margin.

23.

All Goods Sold at **15% Off**



\$95



\$45

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

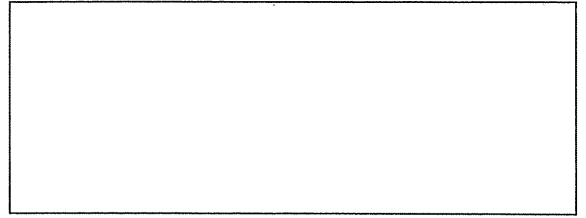
(Show your working)

Blank area for showing working.

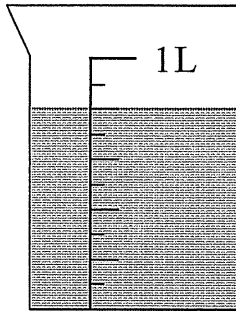
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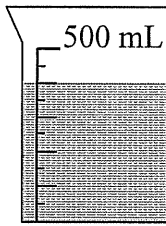
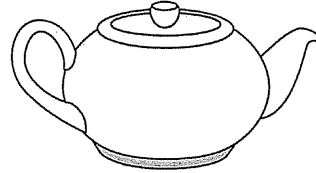
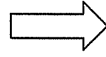
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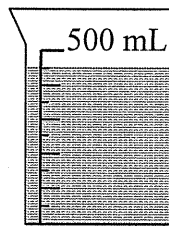
24.



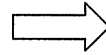
A



B



C



- (a) All the water in Beaker A just fills up the teapot.

The capacity of the teapot is _____ L.

- (b) All the water in Beaker B and Beaker C just fills

up the water bottle. The capacity of the water

bottle is _____ mL.

- (c) The capacity of the teapot is






* larger than / smaller than / equal to
that of the water bottle.

(* Circle the answer)

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Please do not write in the margin.

25.

2010 November						
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			27
28	29					

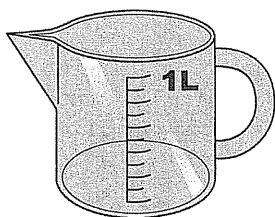
Part of the calendar above is dirty.

- (a) The fourth Sunday of November is the _____ of _____ .
(month)
- (b) The last day of November is _____ .
(day of a week)
- (c) The Film Festival started on the 3rd of November and lasted for 14 days. It ended on the _____ of _____ .
(month)

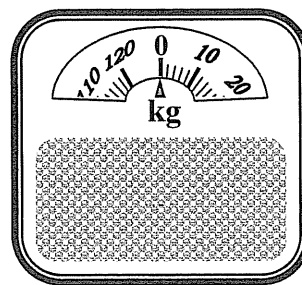
26. Fill in each blank with a suitable unit of measurement.

- (a) The height of a desk is about 750 _____ .
- (b) The capacity of a fish tank is about 50 _____ .
- (c) The weight of a baby is about 3 _____ .

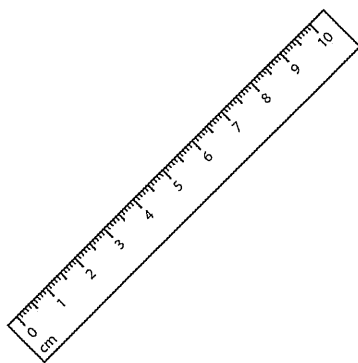
27. Which of the following tools is most suitable for measuring the weight of a dictionary?



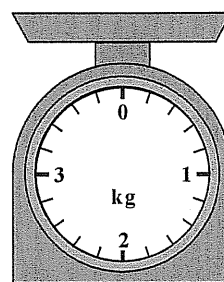
☐ A.



☐ B.

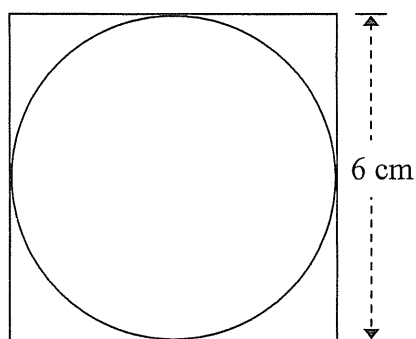


☐ C.



☐ D.

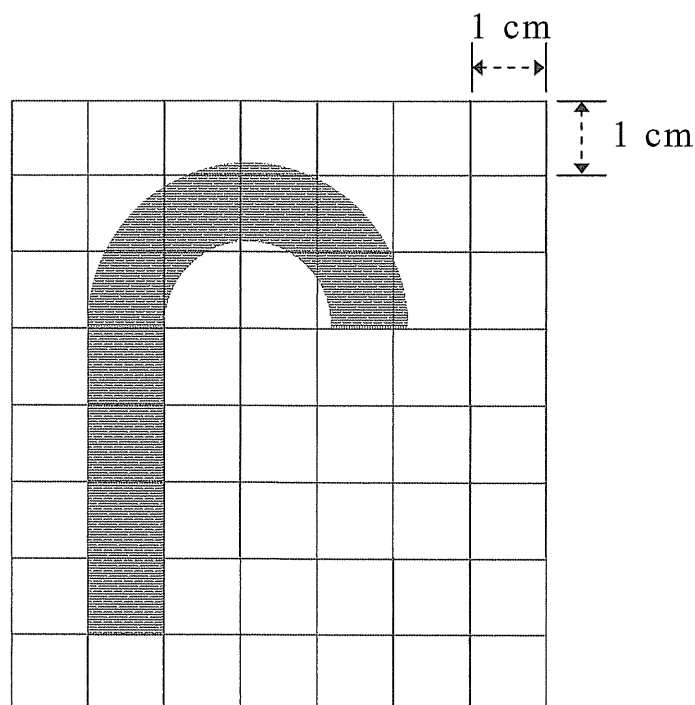
28. In the figure below, the largest circle was drawn inside a square.



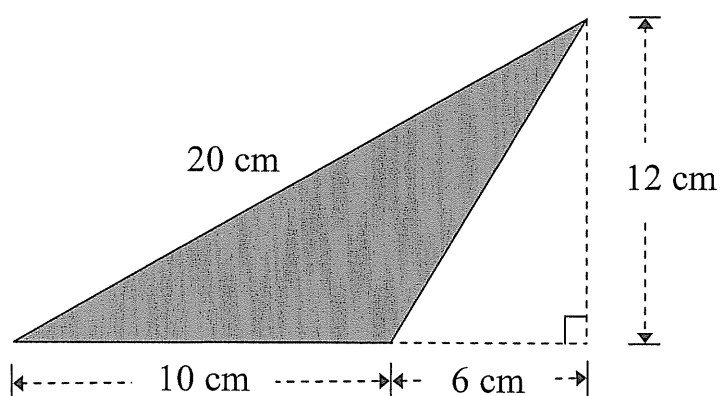
- (a) The perimeter of the square is _____ cm.
- (b) The circumference is _____ cm.
(Take π as 3.14)

29. In the diagram below, the side of each small square is 1 cm. The area of the shaded part is about _____ cm^2 .

(Give the answer as a whole number)



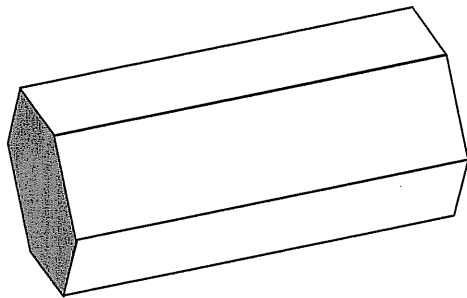
30.



The area of the shaded part in the above figure is _____ cm^2 .

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

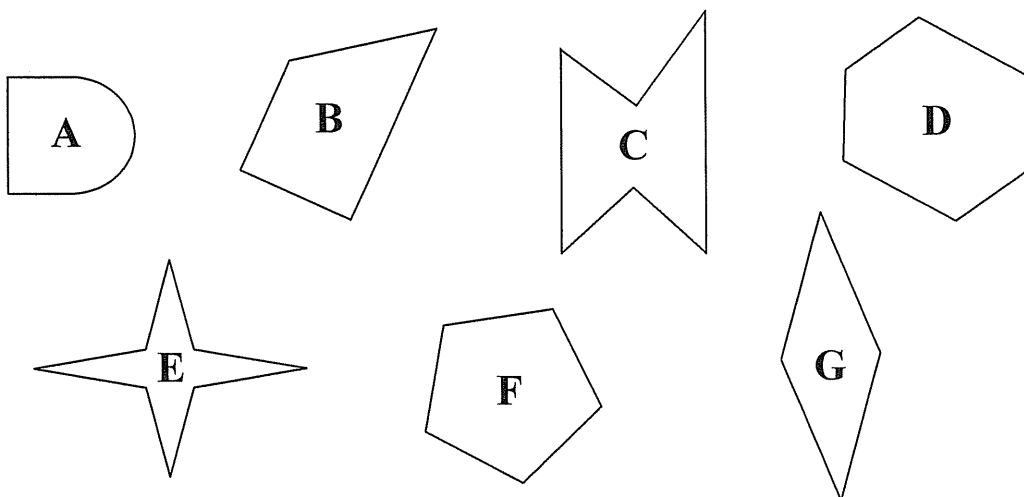
32.



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

It has _____ faces and _____ edges.

33.



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

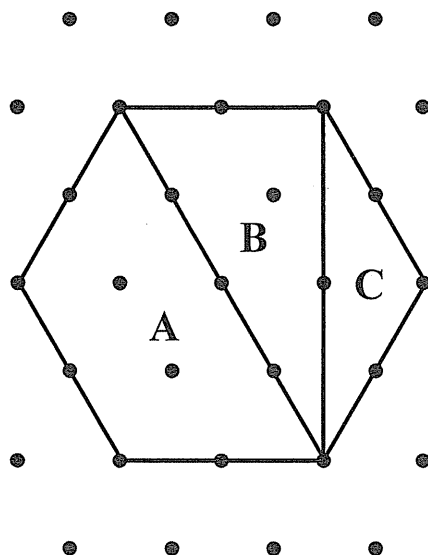
Answer: _____

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

Answer: _____

34. A quadrilateral with *only* one pair of opposite sides parallel is a _____.

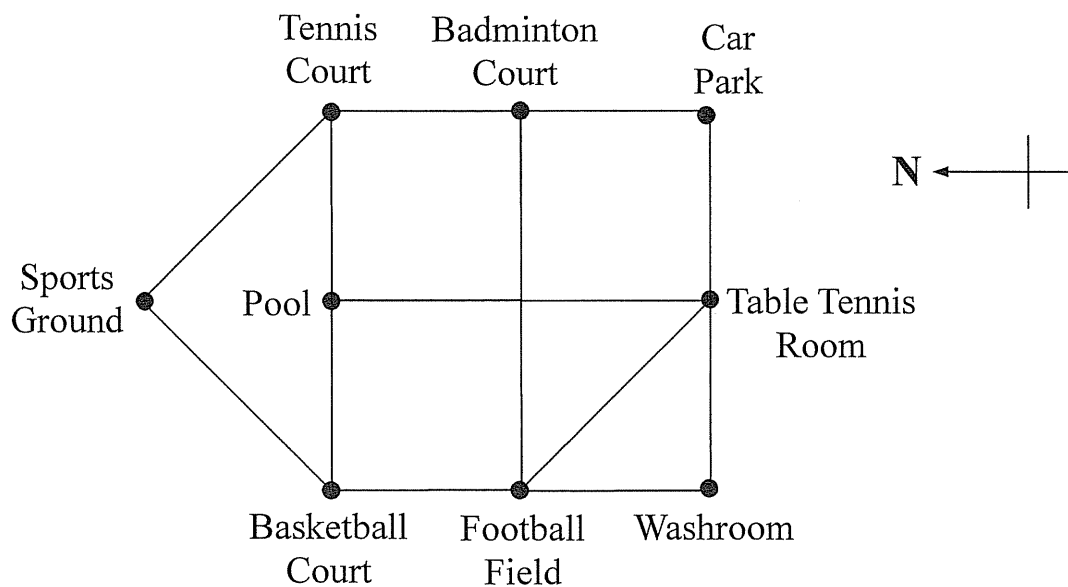
35.



The hexagon above is formed by three 2-D shapes A, B and C. The hexagon has equal sides.

- (a) Shape A is a * parallelogram / trapezium / rectangle.
(*Circle the answer)
- (b) Shape B is * an isosceles / an equilateral /
a right-angled triangle. (*Circle the answer)
- (c) Shape C is * an isosceles / an equilateral /
a right-angled triangle. (*Circle the answer)

36.

The Map of Sports Facilities

- (a) Peter goes from Sports Ground to Badminton Court.

He first goes _____ to Tennis Court,
(direction)

then turns _____ to reach Badminton Court.
(direction)

- (b) Wincy goes from Car Park to Football Field.

She goes west to _____ and then turns
_____ to reach Football Field.
(direction)

37. $36 = 5Q + 1$

 $Q =$

38. Which of the following is an equation?

- ☐ A. $t + 10$
- ☐ B. $72 \div 6 = 12$
- ☐ C. $\frac{2S}{3} \times 20 = 1$
- ☐ D. $84 - 12 = 72$


39. $6k + \frac{2}{3} = 1\frac{1}{3}$

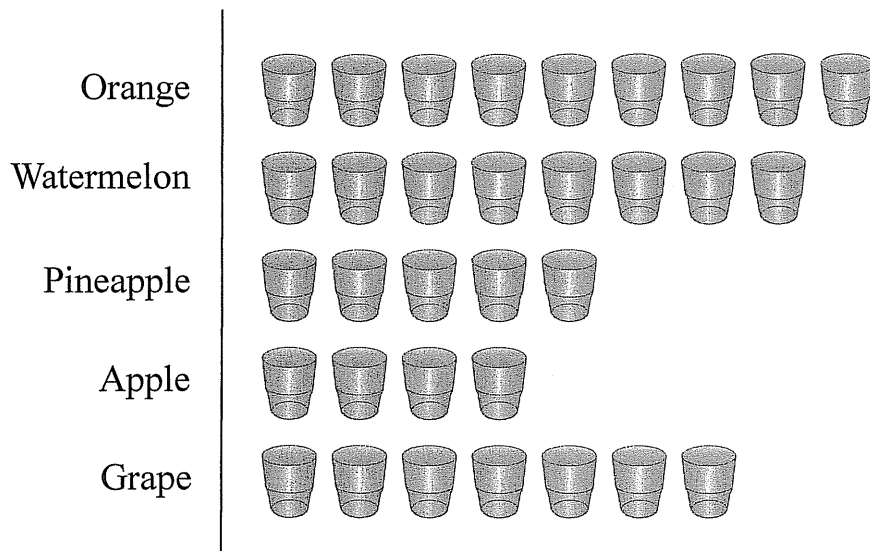
$k =$

40. A number times 15 and then minus 8 equals 127. Find the number by the *method of solving an equation*.
(Show your working)

41. The following pictogram shows the sales of juice of DoDo Fruit Shop last month.

Sales of Juice of DoDo Fruit Shop Last Month

Each  stands for 1 000 cups

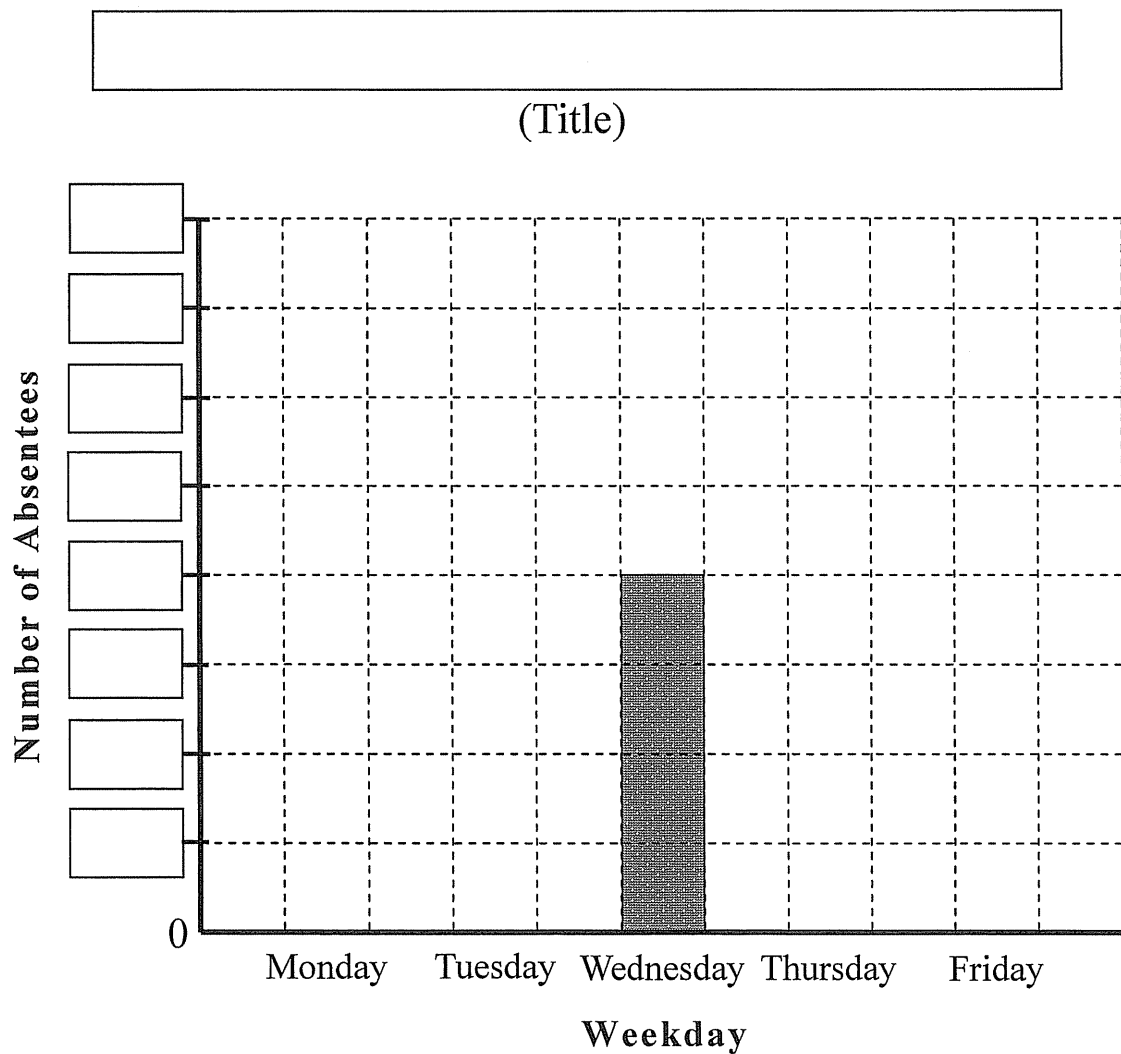


- (a) The total sales of juice were _____ cups last month.
- (b) The most popular juice was _____ juice, of which _____ cups were sold.
- (c) The sales of apple juice were _____ % of the sales of watermelon juice.

42. 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.



Please do not write in the margin.

Please do not write in the margin.

43. Find the average of the five numbers below.

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

Answer: The average is _____ .

— END OF PAPER —

