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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2014◆
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 39 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

◆ 2014 年小六全港性系統評估暫停舉行。此評估是學校以自願形式參與，而非全體小六學生參與的全港性系統評估。
The 2014 P6 TSA has been suspended. Participation in the 2014 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

1. Which of the following numbers has the digit '8' in its hundreds place?

☐ A. 98.137
☐ B. 981.37
☐ C. 9813.7
☐ D. 98137

2. 9 is a factor of

☐ A. 32.
☐ B. 18.
☐ C. 6.
☐ D. 3.

3. List all the factors of 34.

Answer: _____

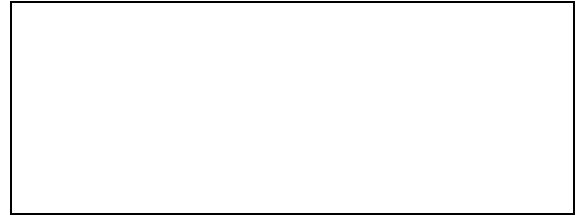
4. The Least Common Multiple (L.C.M.) of 15 and 24 is _____ .

5. Which of the following fractions has its value nearest to 1?

(Circle the answer)

$1\frac{5}{6}$, $1\frac{5}{7}$, $1\frac{5}{9}$

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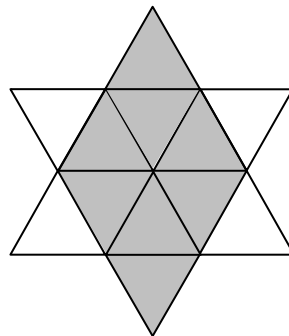
Please do not write in the margin.

6. The first common multiple of 4 and 14 is 28.

Which of the following numbers is their third common multiple?

- ☐ A. 2
- ☐ B. 56
- ☐ C. 84
- ☐ D. 112

7. Shade the triangles in the figure below so that the shaded part is $\frac{5}{6}$ of the whole figure.



Please do not write in the margin.



8. (a) Change $3\frac{2}{15}$ into an improper fraction.

Answer:

- (b) Change $\frac{85}{8}$ into a mixed number.

Answer:

9. Which of the following fractions is the largest?

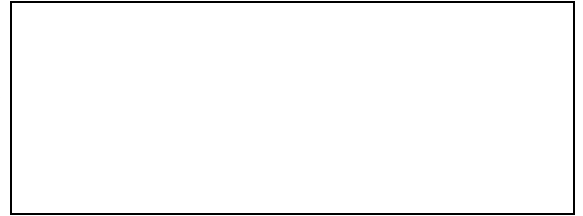
(Circle the answer)

$$2\frac{7}{9} \quad , \quad 2\frac{7}{8} \quad , \quad \frac{21}{8}$$

10. Change 0.15 into a fraction and reduce it to the simplest form.

Answer:

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11. In the number 0.009, what is the value represented by the digit '9'?

- ☐ A. 9
- ☐ B. $\frac{9}{10}$
- ☐ C. $\frac{9}{100}$
- ☐ D. $\frac{9}{1000}$

12. When 750 is divided by 14, the quotient is _____
and the remainder is _____.

13. $2\frac{5}{8} + \frac{5}{6} =$

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

15. $27 - 7.3 + 0.65 =$ _____

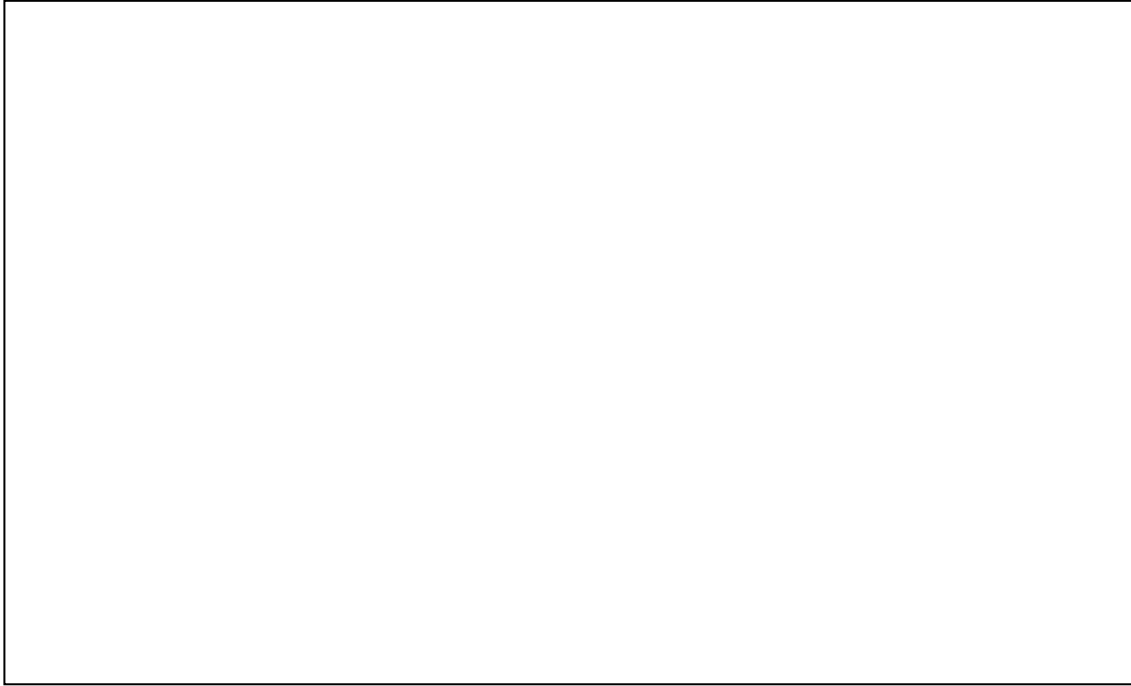
16. $5.16 \div 0.3 =$ _____

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17. Polly had 8 kg of rice originally. After eating $4\frac{1}{5}$ kg of rice, she buys $3\frac{1}{2}$ kg.

How many kilograms of rice does Polly have now?

(Show your working)



18. Lisa and Kenny donate some pocket money to charity.

(a) Kenny has \$100 of pocket money.

He donates 40% of it.

Kenny donates \$_____.

(b) Lisa has \$150 of pocket money. She donates 30% of it.

Lisa donates \$_____ * more / less than Kenny.

(*Circle the answer)

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19. John has 1.5 litres of milk. After drinking 0.6 litres of milk, he divides the remaining milk equally into 5 cups. How much milk is there in each cup?
(Show your working)

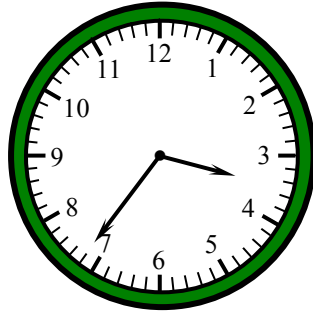
20. (a) Change 9% into a decimal.
Answer: _____
- (b) Change 0.55 into a percentage.
Answer: _____ %

21. There are 1.5 L of juice in a bottle.
Susan uses 2.5 bottles of juice to make fruit punch.
She uses _____ L of juice altogether.

Please do not write in the margin.



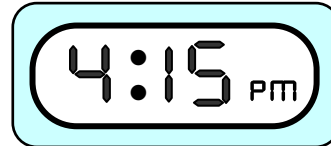
22.



- (a) The clock above showed the time Jenny left school.

The time was _____ minutes to _____ in the afternoon.

- (b) Jenny reached home at



In '24-hour time', the time

was _____ : _____ .

- (c) Jenny took _____ minutes to return home from school.

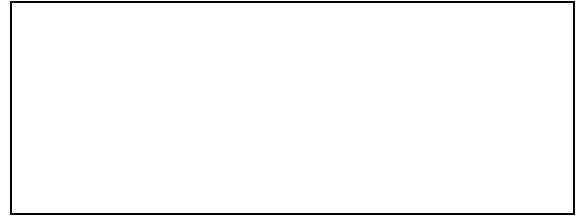
23. Fill in the following blanks with suitable units.

- (a) The depth of water in a training swimming pool is about 1 _____ .

- (b) A child weighs about 30 _____ .

- (c) The capacity of a bucket is about 15 _____ .

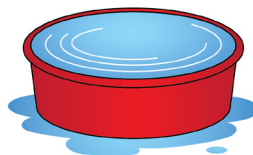
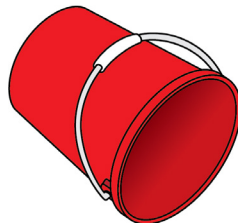
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24. Eva filled up a vase with water. She poured all the water into an empty bucket.



Then she poured the water from the bucket into an empty plastic basin until it overflows.



The capacity of the plastic basin is

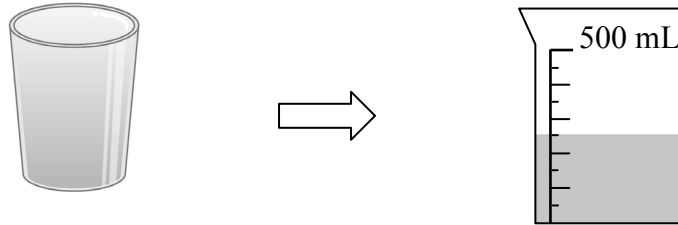
* smaller than / equal to / larger than that of the vase.

(*Circle the answer)

Please do not write in the margin.

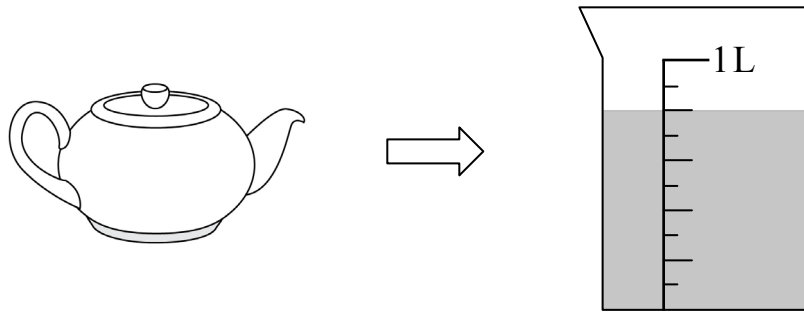
Please do not write in the margin.

25. (a) Fill up a glass with juice. Then pour all the juice into a measuring cup.



The capacity of a glass is _____ mL.

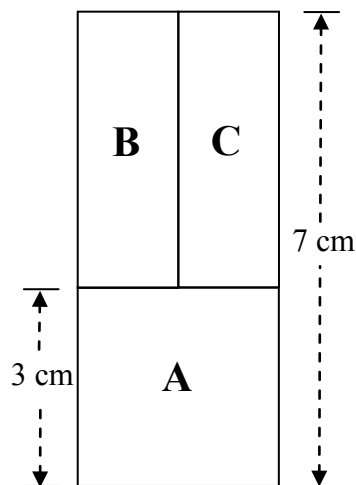
- (b) Fill up a teapot with water. Then pour all the water into a measuring cup.



The capacity of a teapot is _____ L.

- (c) The total capacity of three glasses is _____ mL * more / less than the capacity of a teapot. (*Circle the answer)

26. The following figure is made up of square **A** and rectangles **B** and **C**. The areas of **B** and **C** are equal.

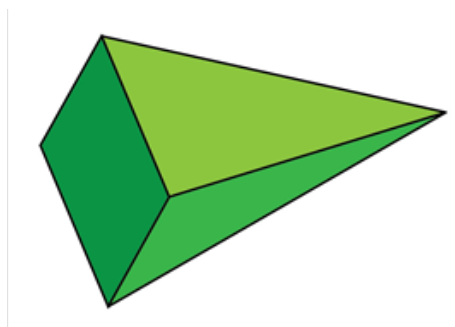


- (a) The area of **A** is _____ cm^2 .
 (b) The area of **B** is _____ cm^2 .

27. The radius of a circular carpet is 70 cm.

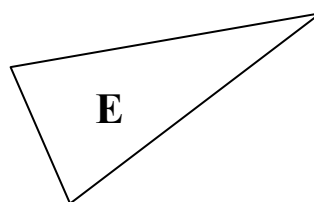
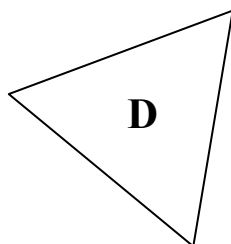
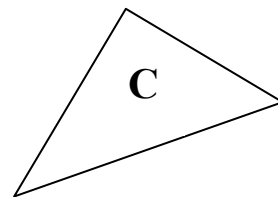
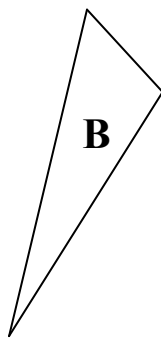
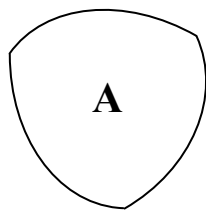
Its circumference is _____ cm. (Take π as $\frac{22}{7}$)

28.



The pyramid above has _____ faces
 and _____ edges.

29.



Among the figures above, the triangle with three equal sides is _____ .

(Write the letter for the answer)

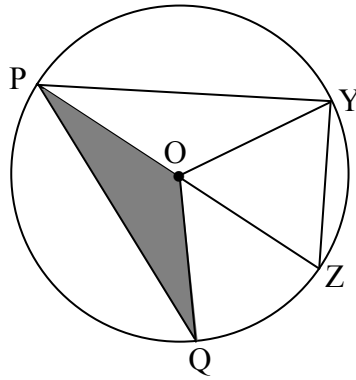
It is * an isosceles / a right-angled / an equilateral triangle.

(*Circle the answer)

30. The average speed of a bus is about

60 _____. (Give a suitable unit)

31.



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

(a) Which of the straight lines below is a radius?

- ☐ A. PY
- ☐ B. PO
- ☐ C. PZ
- ☐ D. PQ

(b) The shaded part is

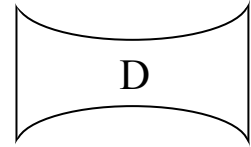
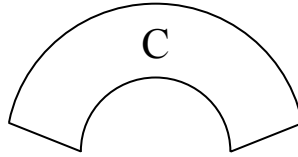
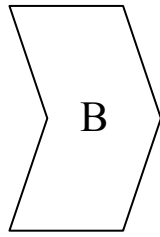
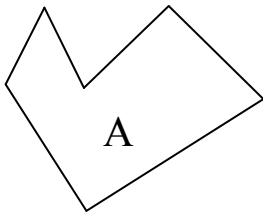
* an isosceles / a right-angled / an equilateral triangle.

(*Circle the answer)

Please do not write in the margin.

Please do not write in the margin.

32. Study the following 2-D shapes. Write the letter(s) for the answer.



- (a) Which of the 2-D shapes above has / have parallel lines?

Answer: _____

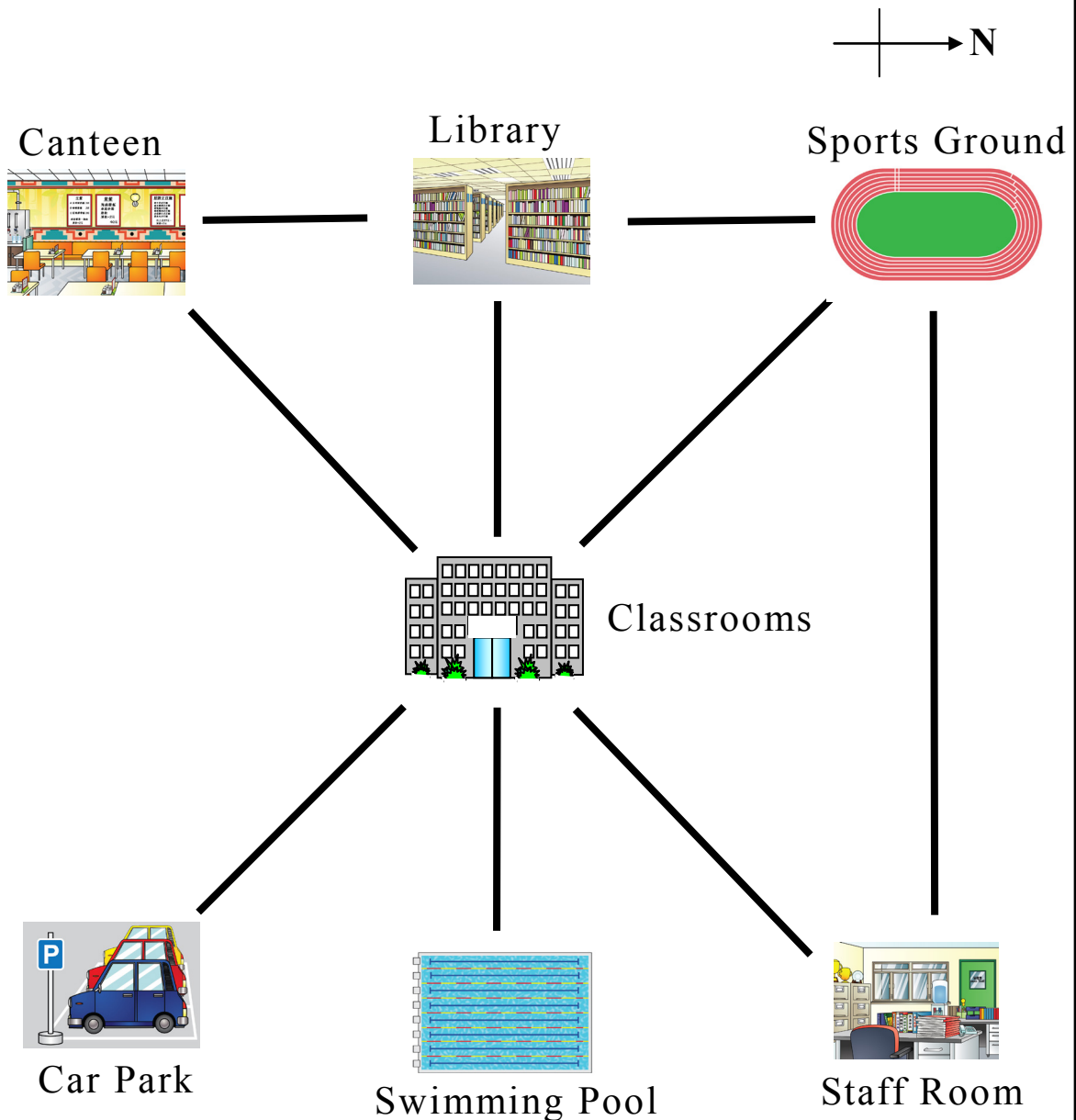
- (b) Which of the 2-D shapes above has / have perpendicular lines?

Answer: _____

33. Which of the following stands for 'y plus 1 is divided by 6'?

- ☐ A. $y + \frac{1}{6}$
- ☐ B. $\frac{y}{6} + 1$
- ☐ C. $\frac{y + 1}{6}$
- ☐ D. $\frac{6}{y} + 1$

34. The facilities of Ideal School are shown in the map below.



- (a) Library is to the _____ of Sports Ground.
(direction)
- (b) _____ is to the south-west of Classrooms.
- (c) From Car Park, the swimming coach goes
_____ to reach Classrooms. Then
(direction)
he turns _____ to reach Swimming Pool.
(direction)

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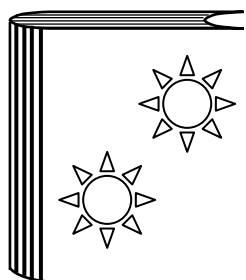
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35.

$$30.5 = 8.3 + 2x$$

 $x =$

36.



\$24.00 each

Linda buys 8 pens and a notebook for \$120. Find the price of one pen by the *method of solving an equation*.

(Show your working)

Please do not write in the margin.

37. The following table shows the quantities of recycled items collected by Happy Estate last week.

Recycled item	Plastic bottle	Aluminium can	Battery	Glass bottle
Quantity (pieces)	50	70	30	50

According to the information above, construct a pictogram and give it a title.

(Title)

Each ○ stands for 10 pieces

Plastic
bottle

Aluminium
can

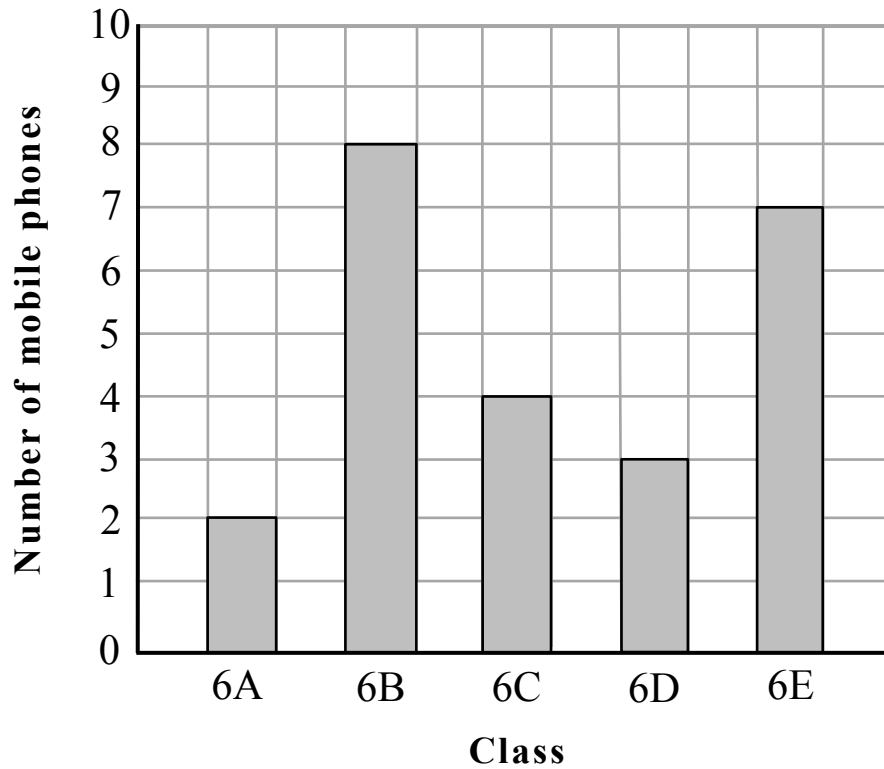
Battery

Glass
bottle

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38. Mr Cheung did a survey on the number of mobile phones owned by the pupils of Primary Six classes. Then he drew the following bar chart.

Number of Mobile Phones Owned by the Pupils of Primary Six Classes



- (a) Class _____ has the largest number of mobile phones.
They have _____ mobile phones.
- (b) Primary Six pupils have a total of _____ mobile phones.
- (c) Class 6A has _____ * more / less mobile phones than Class 6E. (*Circle the answer)

Please do not write in the margin.

39. At first there were 10 people in a lift and their average weight was 75 kg.

Then a child weighing 31 kg entered the lift.

The average weight of these 11 people
was _____ kg.

— END OF PAPER —

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