* 6 M E 4 *

6	M	E	4

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Please stick the barcode label in the box

Education Bureau
Territory-wide System Assessment 2018◈
Primary 6
Mathematics

Instructions:

1. Stick barcode labels on pages 1, 3, 5, 7 and 9 in the spaces provided.
2. There are 36 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	P				**Class** 班別	6		**Class No.** 班號		

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

◈2018 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 2018 P6 TSA has been suspended. Participation in the 2018 P6 TSA is on a voluntary basis. As a result, this is a TSA in which not all P6 students will participate.

1. Arrange the following numbers from the smallest to the largest.

   18026 , 19026 , 3026

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

2. List all the common factors of 15 and 60.

   Answer: _____

3. Which of the following numbers is a common multiple of 6 and 8?

   ○ A. 2
   ○ B. 16
   ○ C. 24
   ○ D. 36

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4. Which of the following fractions is the smallest?

(Circle the answer)

$\frac{3}{7}$, $\frac{2}{7}$, $\frac{3}{5}$

5. Change $\frac{5}{9}$ into a decimal correct to two decimal places.

Answer: _____

6. When 452 is divided by 14, the quotient is _____

and the remainder is _____ .

7. Which of the following numbers has the digit '5' in its tenths place?

○ A. 0.035
○ B. 0.35
○ C. 3.5
○ D. 350

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Please do not write in the margin.

8. $3\frac{1}{5} - 1\frac{3}{5} + \frac{4}{5} =$ ☐

9. $\frac{2}{3} \times \frac{1}{4} \times 2\frac{2}{3} =$ ☐

10. Calculate $5.24 \div 2.4$.

Round the answer to two decimal places.

Answer: _____

11. $1.8 \times 5 \times 7.2 =$ _____

12. The original price of an air-conditioner was $3 950. During the sale, Mrs Lam bought an air-conditioner at 82% of the original price. Which of the following expressions is most suitable for estimating the amount (in dollars) paid by Mrs Lam?

○ A. $3\,000 \times 80\%$

○ B. $4\,000 \times 80\%$

○ C. $3\,000 \times 90\%$

○ D. $4\,000 \times 90\%$

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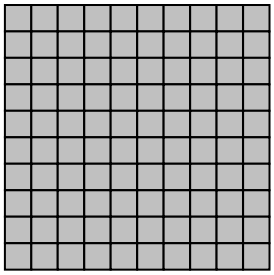
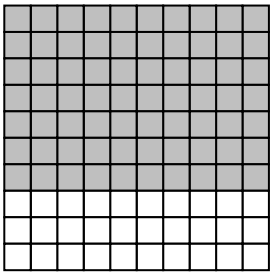
13. The capacity of a soft drink can is 0.5 L. The capacity of a juice bottle is 7 times that of a soft drink can.

The capacity of a juice bottle is _____ L.

14.  stands for 1.

Represent the shaded part in the diagram below with a decimal.



○ A. $\frac{7}{10}$

○ B. 0.07

○ C. 0.7

○ D. 70

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15. Happy School pupils have $2\frac{1}{3}$ hours of class time in the morning and $1\frac{1}{4}$ hours in the afternoon. They have $1\frac{1}{6}$ hours of lunch time. The class time and lunch time of Happy School pupils each day is ☐ hours altogether.

16. Mother has bought 24 flowers. $\frac{3}{8}$ of them are roses. $\frac{1}{6}$ of them are lilies. What is the total number of roses and lilies?
(Show your working)

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17. (a) Change $\frac{1}{25}$ into a percentage.

Answer: _____ %

(b) Change 0.1% into a fraction and reduce it to the simplest form.

Answer:

18.

Sale

All computers: **20% off**

The original price of a computer was 5 500 dollars.

During the sale, it was sold at _____ dollars.

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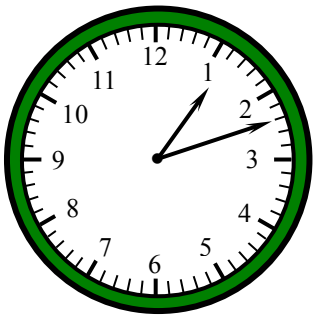
19. Jane and Kenny had lunch together in the canteen.



(a) The clock above showed the time Jane arrived at the canteen.

The time was _____ minutes past _____ in the afternoon.

(b) Kenny arrived at the canteen at 1:20 p.m.

In '24-hour time', Kenny arrived at the canteen at _____ : _____ .

(c) Kenny arrived at the canteen

_____ minute(s) * earlier / later than Jane.

(*Circle the answer)

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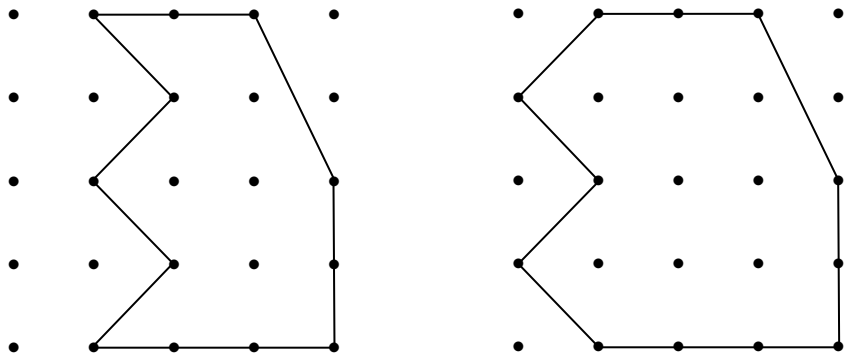
20. Fill in the following blanks with suitable units.

(a) The weight of a van is about 2 000 _____ .

(b) The capacity of a pot is about 4 _____ .

21.



X **Y**

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

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

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Please do not write in the margin.

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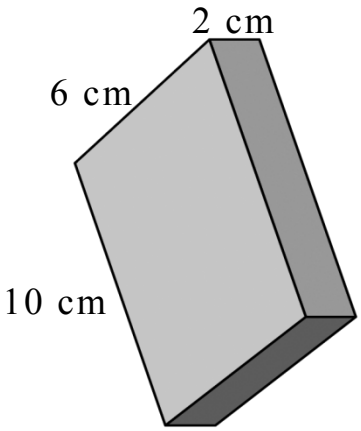
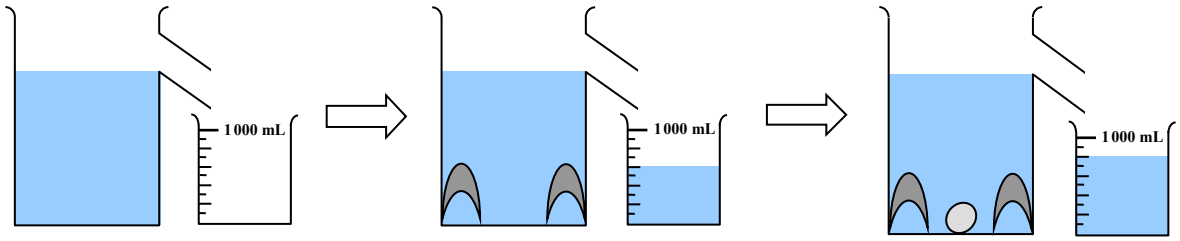
22.



The volume of the cuboid above is

- ○ A. 60 cm^2.
- ○ B. 60 cm^3.
- ○ C. 120 cm^2.
- ○ D. 120 cm^3.

23.



(a) The volume of one  is _____ cm^3.

(b) The volume of one  is _____ cm^3.

Please do not write in the margin.

24. The circumference of a circular bicycle trail is 942 m.

(a) The radius of the circular bicycle trail is _____ m.
(Take π as 3.14)

(b) Paul rides a bicycle at an average speed of 10 m/s.
How long does he take to ride one lap round the bicycle trail?
(Show your working)

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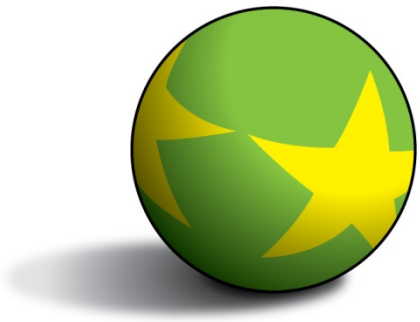
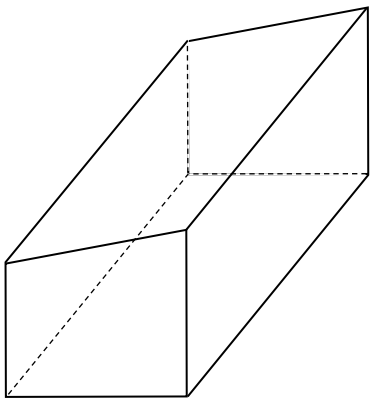
25. The 3-D shape on the right is a



- ○ A. sphere.
- ○ B. cylinder.
- ○ C. cone.
- ○ D. circle.

26.



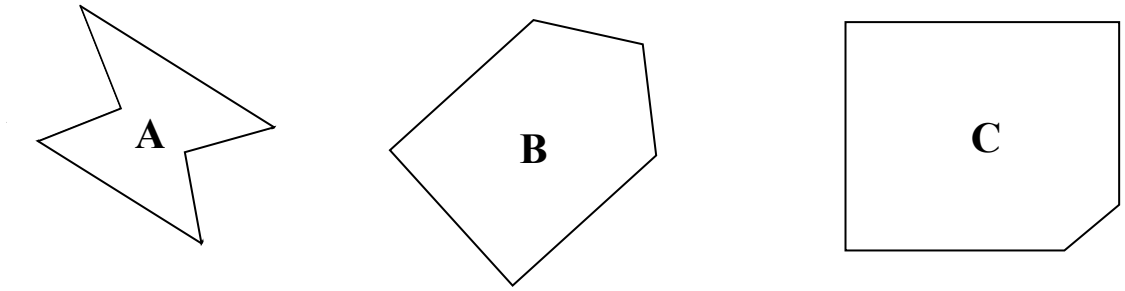
The figure above is a * pyramid / prism .

(* Circle the answer)

It has _____ vertices.

Please do not write in the margin.

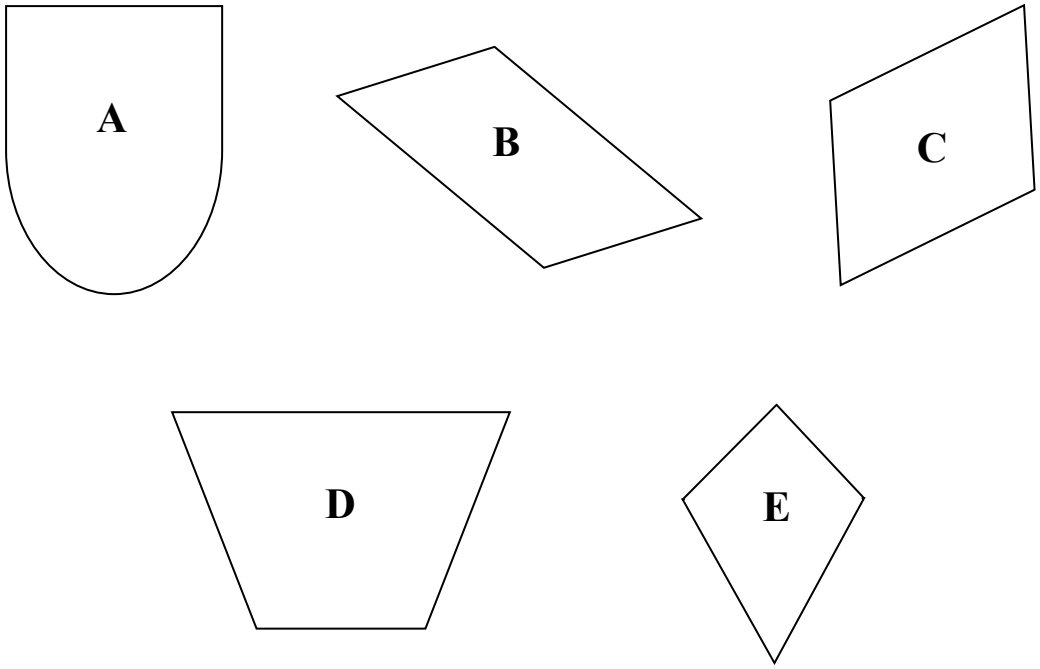
27. Study the 2-D shapes below. Write all the letters for the answers.



Pentagon: _____

Hexagon: _____

28. Study the 2-D shapes below. Write all the letters for the answers.

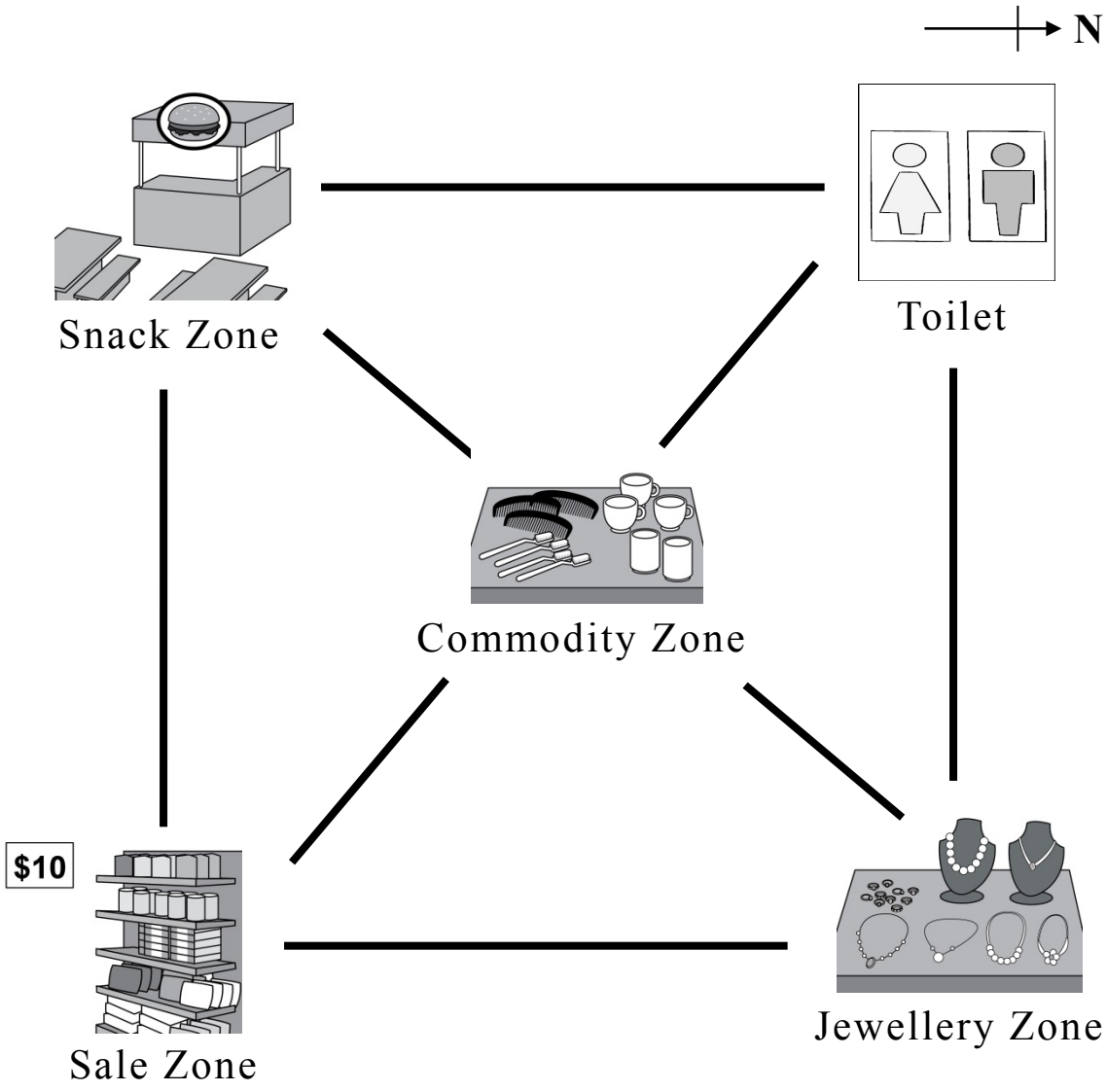


(a) Parallelogram: _____

(b) Trapezium: _____

Please do not write in the margin.

29. The floor plan of a shopping mall is shown below.



(a) Snack Zone is to the _____ of Sale Zone.
(direction)

(b) Starting from Commodity Zone, Linda goes

_____ to reach Sale Zone.
(direction)

Then she turns _____ to reach
(direction)
Jewellery Zone.

30. There are y pieces of cake in a box. A customer can get one more piece of cake for buying a box of cake. If Wilson buys 6 boxes of cake, how many pieces of cake can he get altogether?

- ○ A. $6y$
- ○ B. $6y + 1$
- ○ C. $y + 1 \times 6$
- ○ D. $(y + 1) \times 6$

31. Which of the following is an equation?

- ○ A. $x + 9$
- ○ B. y
- ○ C. $24 \div 3 = 2 \times 4$
- ○ D. $12 = \frac{h}{8} + 2$

Please do not write in the margin.

32. $\frac{3g}{2} = \frac{1}{4}$

$g =$ ☐

33. After Eva has spent 60 dollars of her pocket money, she donates one third of the remaining amount for charity. Eva donates 90 dollars. Find the original amount of Eva's pocket money by ***the method of solving an equation***. (Show your working)

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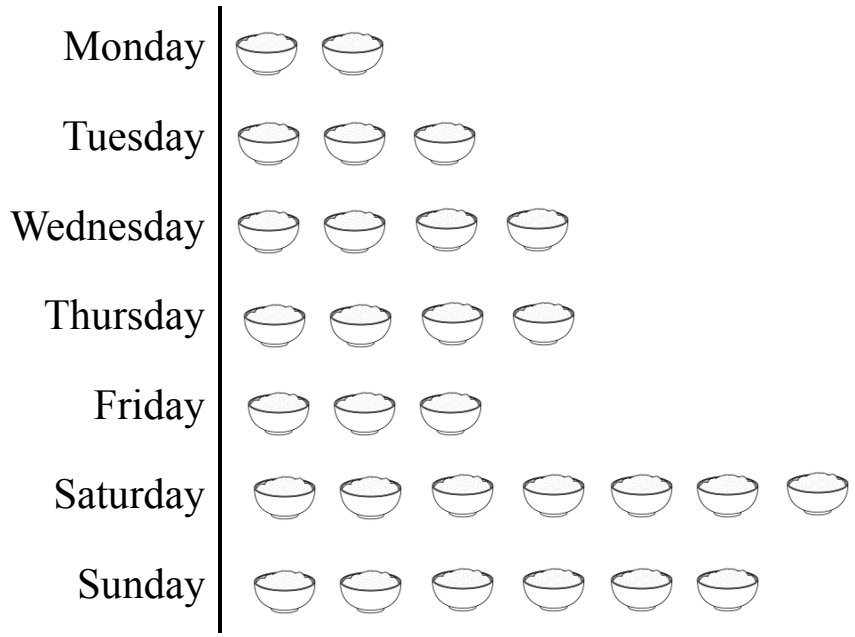
34. The following pictogram shows the number of special price meals sold by Best Fastfood last week.

Number of Special Price Meals Sold by Best Fastfood Last Week

Each  stands for 1 000 meals



(a) The number of special price meals sold on

_____ was the most.
(day of the week)

There were _____ special price meals sold.

(b) The total number of special price meals sold last week was _____ .

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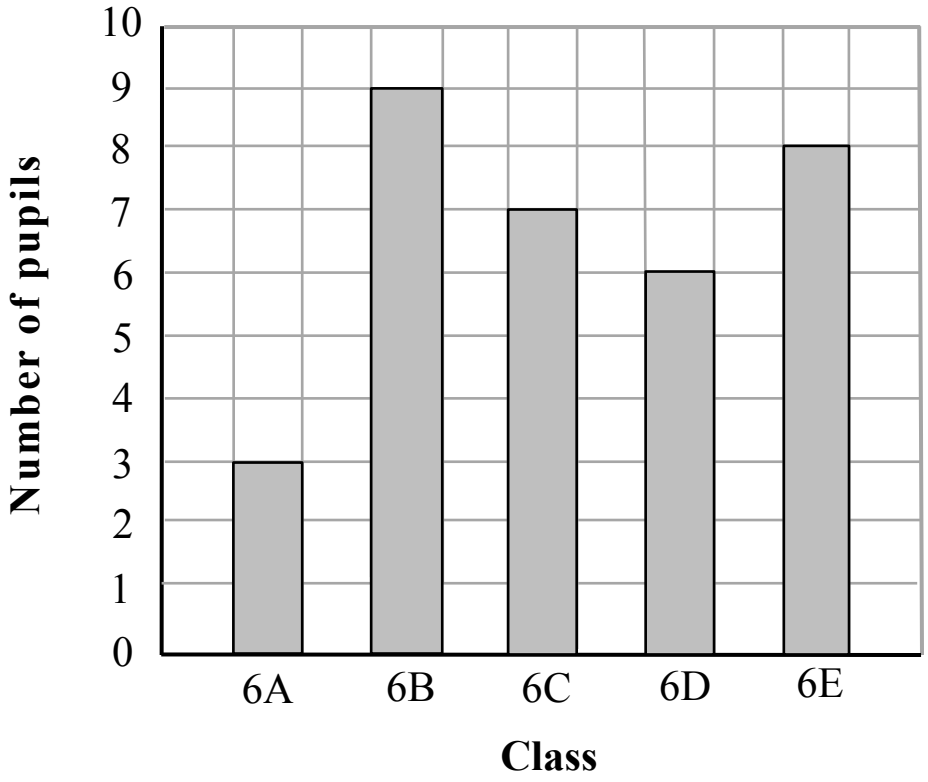
35. The following bar chart shows the number of pupils in Primary Six classes who took part in the speech competition.

Number of Pupils in Primary Six Classes Who Took Part in the Speech Competition



(a) The number of Class 6B pupils who took part in the speech competition was _____ times that of Class 6A.

(b) A total of _____ Primary Six pupils took part in the speech competition.

36. There are 9 passengers in a lift. Their total weight is 470 kg.

After a passenger weighing 70 kg has entered the lift, the average weight of the passengers in the lift is _____ kg.

— END OF PAPER —

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