$\qquad$


## Basic Questions

1. (a)

2. (a) $16.8 \div 6=$ $\qquad$
(b) $67.2 \div 21=$ $\qquad$
(c) $0.96 \div 8=$ $\qquad$
(d) $1.7 \div 25=$ $\qquad$
(b)

(c)
$6 \longdiv { 6 . 4 2 }$
3. (a)

(b)

## Tips

- Line up the decimal points in the quotient and the dividend.
- Put ' 0 's in the quotient whenever necessary.
$1 8 \longdiv { 7 4 7 }$

4. (a) $426 \div 12=$
(b) $152 \div 5=$ $\qquad$
5. Which of the following is closest to the result of $174.9 \div 16$ ?A. $170 \div 16$
B. $174 \div 16$C. $175 \div 16$
D. $180 \div 16$

## Questions

6. Which of the following has the smallest result?
A. $90 \div 12$
B. $9 \div 12$
C. $0.9 \div 12$
D. $0.09 \div 12$
7. If $\hat{\delta} \div 10=0.8$, what is the result of $\hat{\delta} \div 100$ ?A. 0.08
B. 0.8
C. 8
D. 80

## Tips

Apply the properties of ${ }^{\prime} \div 10^{\prime}$ and ${ }^{\prime} \div 100^{\prime}$.
8. Each kilogram of walnuts costs $\$ 36$. Mum spends $\$ 97.2$ on walnuts. How many kilograms of walnuts does she buy?

Answer: $\qquad$ kg
9. A melon weighs 4 kg . Mum cuts the melon into 16 pieces of the same size. Each piece of melon weighs $\qquad$ kg .
10. Dad spends 75 dollars on half a dozen chicken pies. How much does each chicken pie cost? (Show your working)
11. A shop assistant pours the oil from the big oil bottle into small bottles, as shown on the right. He can fill up $\qquad$ small bottles at most. He will have $\qquad$ L of oil left.

12. The length of a rectangular workshop is 40 m . Its area is $864 \mathrm{~m}^{2}$. What is its width? (Show your working)
$\qquad$

## Learning Objectives

(1) Applications of percentages
(2) Capacity and volume
(3) Circumference
(4) Area of circles

1. $39 \%$ of 600 is $\qquad$ .
2. 45 is $\qquad$ $\%$ of 250.
3. There are 75 cheesecakes and 12 green tea cakes in a cake shop.
(a) What percentage of the number of green tea cakes is the number of cheesecakes?
Answer: $\qquad$
(b) What percentage of the number of cheesecakes is the number of green tea cakes?
Answer: $\qquad$
4. When 140 is increased by $35 \%$, the result is $\qquad$ .
5. A rectangular flower bed is 9 m long and 6 m wide. When its length is increased by $30 \%$, what is its new area?A. $11.7 \mathrm{~m}^{2}$
B. $16.2 \mathrm{~m}^{2}$
C. $54 \mathrm{~m}^{2}$
D. $70.2 \mathrm{~m}^{2}$
6. There are 160 seats in an aeroplane. $27.5 \%$ of them are business seats. The remaining are economy seats. There are $\qquad$ more economy seats than business seats.
7. Complete the table below. (Take $\pi=3.14$ )

Seff:Assessment

| Circle | Radius | Diameter | Area |
| :---: | :---: | :---: | :---: |
| X | 7 cm |  |  |
| Z |  | 60 m |  |

17. Use the pair of compasses on the right to draw a circle. What is the area of the circle? (Take $\pi=3.14$ )A. $12.56 \mathrm{~cm}^{2}$
B. $25.12 \mathrm{~cm}^{2}$
C. $50.24 \mathrm{~cm}^{2}$
D. $200.96 \mathrm{~cm}^{2}$

(4)
18. Find the area of the coloured region below. (Take $\pi=3.14$ )


Area: $\qquad$ $\mathrm{cm}^{2}$

(Based on the number of questions that answered correctly, colour the appropriate face.)
$\qquad$

## Challenge 1

1. Change $3.6 \%$ into a fraction and reduce it to the simplest form.

Answer: $\square$ Similar question: P. 18 Q2


Challenge 2
2. $9.2-17.68 \div 8=$ $\qquad$ Similar question: P. 10 Q1
3. The capacity of a bottle is 2 L . The capacity of a cup is 0.8 L .
The capacity of a bottle is $\qquad$ times that of a cup. Similar question: P.6 Q5


Pay attention to the positions of all multiplication signs and division signs.

## What's wrong?

Some pupils fail to solve the problem involving division of decimals.


Understand the scenario of the problem carefully.

## Division of decimals

| division | 除法 |
| :--- | :--- |
| quotient | 商 |
| remainder | 餘數 |
| P is divided by Q | P除以 Q |
| is approximately <br> equal to | 大約等於 |
| round off | 四捨五入 |
| round off to the <br> nearest tenth <br> round off to the <br> nearest hundredth | 取至十分位 <br> 取至百分位 |
| mixed operations | 四則混合運算 |

## Percentages

percentage 百分數

## Applications of percentages

## part <br> 部分

whole
整體

## Capacity and volume

capacity 容量
volume 體積
millilitre（mL） 毫升（mL）
litre（L） 升（L）
cubic centimetre $\left(\mathrm{cm}^{3}\right)$ 立方厘米 $\left(\mathrm{cm}^{3}\right)$
cubic metre $\left(\mathrm{m}^{3}\right)$ 立方米 $\left(\mathrm{m}^{3}\right)$
water displacement method 排水法
irregular solidtankmeasuring cup水缸
量杯
overflow vessel 排水桶
$\qquad$
$\qquad$
$\qquad$

## Learning Objectives

(1) Find the average of a group of data
(2) Find a missing datum of a group of data based on its average
. Find the average of the following group of numbers.
$4.9,3.14, \frac{3}{2}, 0,55.71$
Answer: $\qquad$
2. Given the average of the group of numbers, fill in the blank with a suitable number.
Average $=10$
13,9 , $\qquad$ , 11, 15
3. The weights of Alvin's family are $84 \mathrm{~kg}, 63 \mathrm{~kg}, 52 \mathrm{~kg}$ and 101 kg . What is the average weight of Alvin's family?
$\bigcirc$
A. 69 kgB. 72 kg
C. 75 kg
D. 78 kg
4. In the past 6 days, Fiona saved $\$ 9.5$ each day in the first 4 days. She saved a total of $\$ 25$ in the last 2 days. She saved \$ $\qquad$ each day on average.
5. The following table records the monthly rainfall of a city in the second half of the year.

| Month | Jul | Aug | Sep | Oct | Nov | Dec |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rainfall (mm) | 190 | 150 | 80 | 50 | 50 | 20 |

In the second half of the year, how many months have a higher rainfall than the average?
A. 2
$\bigcirc$
B. 3
C. 4
$\bigcirc$
D. 5

