Date: _____

Score: _____

Basic Questions

1. Do the following.

   (a) $228 \div 6 + 34 =$ _____

   (b) $124 - 14 \times 6 =$ _____

   (c) $174 \times 4 \div 8 =$ _____

   (d) $96 \div 16 + 24 \times 8 =$ _____

2. Do the following.

   (a) $352 \div (27 - 11) =$ _____

   (b) $414 \div (9 \times 2) =$ _____

   (c) $9 \times (34 + 14) \div 3 =$ _____

   (d) $(128 - 64) \div 16 + 5 \times 4 =$ _____

   Tips

   Calculate the part in brackets first. In each part, do the multiplication or division first, and then do the addition or subtraction.

3. Are the results of each set of expressions the same? If so, put a '✔' in the box; if not, put a '✗' in the box.

   (a)
   $$96 \div (2 + 4)$$
   $$96 \div 2 + 96 \div 4$$

   (b)
   $$(325 + 150) \div 5$$
   $$325 + 150 \div 5$$

4. Which of the following has the same result as $84 \times 16 \div 4$?
   - ● A. $84 \times (16 \div 4)$
   - ○ B. $84 \div (16 \div 4)$
   - ○ C. $84 \div 16 \times 4$
   - ○ D. $84 \div (16 \times 4)$

5. There were 192 raffle tickets in a bazaar. Each raffle ticket costs $24. The bazaar receives a total of $912 by selling raffle tickets. _____ raffle tickets are left unsold.

6. There are 136 pieces of fruit cake and 85 pieces of cheesecake in a cake shop. They are divided into 17 boxes equally. There are _____ pieces of cake in each box.

7. Mum pays 168 dollars to buys a dozen bottles of sports drink. Dad buys 16 bottles of sports drink. He should pay _____ dollars.

8. There are 156 sweets. There are 24 more sweets than chocolates. Elsa divides all of them into packets of 16. How many packets can she get? (Show your working)

9. Alan reads 14 pages of a book every day. He needs 32 days to finish the whole book. If he reads 2 more pages every day, he will need _____ days to finish the whole book.

10. A potter made 456 tiles. He packed the tiles into 38 boxes equally. After selling 27 boxes, _____ tiles are left.

11. There are 380 eggs. Some of them are bad eggs. Workers pack every 1 dozen good eggs into boxes. They can get 29 boxes with 9 eggs left. There are _____ bad eggs.

12. In each horizontal form, write the numbers 1 to 9 in the boxes to make it correct. Each number can only be used once.

    (a) ☐ × ☐ ÷ ☐ = ☐

    (b) ☐ − (☐ + ☐) ÷ 5 = 4

Self-Assessment
✓ Correct
✗ Incorrect

1. Write the number in the box.

$$\frac{24}{27} = \frac{8}{\boxed{}}$$

2. Reduce $\frac{22}{33}$ to the lowest terms.

Answer: $\boxed{}$

3. Change $\frac{25}{3}$ into a mixed number.

Answer: $\boxed{}$

4. Which of the following fractions are improper fractions? Write them out.

$$\frac{13}{12} \,,\, \frac{1}{8} \,,\, \frac{6}{5} \,,\, 1\frac{1}{2} \,,\, \frac{2}{2} \,,\, \frac{6}{9} \,,\, 3\frac{2}{5} \,,\, \frac{24}{24}$$

Answer: _____

5. Write the numbers in the boxes.

$$\frac{6}{21} = \frac{2}{\boxed{}} = \frac{\boxed{}}{35}$$

19. Mrs Cheung bought 2 bags of salt. After using 0.92 kg, how many kilograms of salt does she have left?

    Answer: _____ kg

    SALT

    0.85 kg

    5 min

    ☐ ④

20. Eason goes to a museum for the insect exhibition with his Dad and Mum. How much should they pay for the entrance fee altogether? (Show your working)

    ☐ ④

    Insect Exhibition
    Entrance Fee
    25.5 dollars per person
    For 3 people together,
    1 person can be free of charge.

    Check

🔍 Self-Assessment Table

		Fair	Good	Great
①	More about fractions	😖 (0–1)	😊 (2–3)	😆 (4–5)
②	Addition and subtraction of fractions	😖 (0–1)	😊 (2–3)	😆 (4–5)
③	Understanding decimals	😖 (0–1)	😊 (2–3)	😆 (4–5)
④	Addition and subtraction of decimals	😖 (0–1)	😊 (2–3)	😆 (4–5)

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

Challenging
Common Mistakes

Challenge 1

1. $600 - 550 \div 5 =$
   - A. 10
   - B. 490
   - C. 589
   - D. 59

Similar question: P.4 Q1

What's wrong?
Some pupils fail to perform mixed operations of division and subtraction.
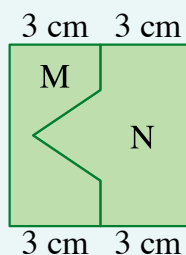
How to do it?
Division first and then subtraction.

Challenge 2

2. Cut a square into two parts M and N as shown on the right. Which of the following descriptions is correct?

   3 cm   3 cm

   M

   N

   3 cm   3 cm

   - A. The perimeter of M is longer than that of N.
   - B. The perimeter of N is longer than that of M.
   - C. The perimeters of M and N are the same.
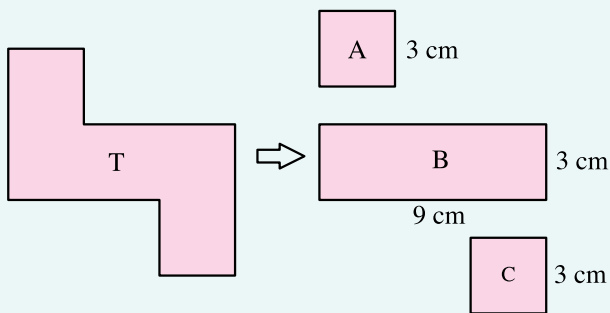   - D. The perimeters of M and N cannot be compared.

Similar question: P.7 Q7

What's wrong?
Many pupils confuse area with perimeter.

How to do it?
Note that the perimeter of a shape is the total length of its boundary.

3.

   T

   ⇨

   A   3 cm

   B   3 cm
   9 cm

   C   3 cm

What's wrong?
A few pupils fail to find the perimeter of an irregular 2-D shape.

How to do it?
Note that the perimeter of the shape is equal to the perimeter of a square with a side length of 9 cm.

Shape T can be cut into two squares A, C and a rectangle B. The perimeter of T is _____ cm.

Similar question: P.10 Q2

Glossary

Four arithmetic operations

four arithmetic operations	四則運算
brackets	括號 / 圓括號

Perimeter

perimeter	周界
square	正方形
side length	邊長
rectangle	長方形
length	長
width	闊

Area

area	面積
squared paper	方格紙
square centimetre (cm^2)	平方厘米 (cm^2)
square metre (m^2)	平方米 (m^2)

More about fractions

fraction	分數
numerator	分子
denominator	分母
fraction line	分線
proper fraction	真分數
two-thirds	三分之二
improper fraction	假分數
five-thirds	三分之五
mixed number	帶分數
one and two-thirds	一又三分之二
whole number	整數
interconversion	互化
change / convert	化為
expand	擴分
reduce	約分
fraction in the lowest terms	最簡分數
equivalent fractions	等值分數
fractions with the same denominator	同分母分數

Unit Test
Area

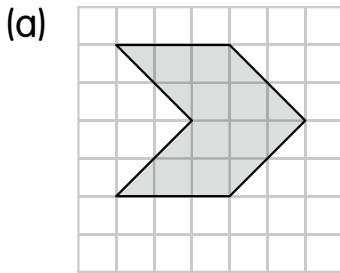Name: _____
Class: _____ (   )
Date: _____
Time: 10 min

Self-Assessment
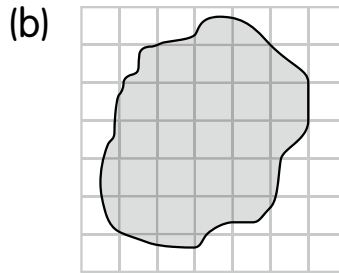☑ Correct
☒ Incorrect

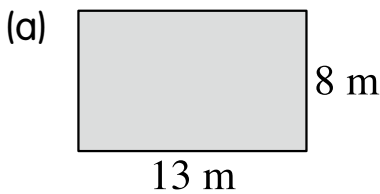1. The side length of each small square below is 1 cm. Find the area of each shaded region.

   (a)

   _____ cm²
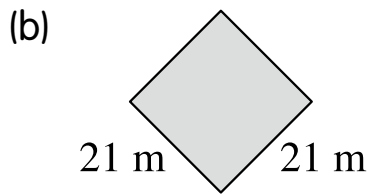
   (b)

   About _____ cm²

   ☐①
   ☐①

2. The area of a table top is about * 7 cm² / 70 cm² / 7000 cm² / 700 m² . (* Circle the answer)

   ☐①

3. Find the area of each square or rectangle below.

   (a)

   8 m
   13 m

   _____ m²

   (b)

   21 m   21 m

   _____ m²

   ☐②
   ☐②

4. The length of a rectangular leaflet is 31 cm. Its area is 713 cm². Its width is _____ cm.

   ☐②