Date: _____

Score: _____

Basic Questions

1. Do the following.

   (a) 13 – (7 + 2) = _____

   (b) 38 + (58 – 25) = _____

   (c) 300 – (41 + 34) = _____

   (d) 124 – (64 – 17) = _____

   (e) (45 + 18) – (12 + 36) = _____

   (f) 4000 – (254 + 1378) = _____

2. 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)

   63 + 59 – 48

   63 + (59 – 48) ☐

   Tips

   In the presence of brackets, the order of calculation changes. The result may then be different.

   (b)

   92 – 15 + 34

   92 – (15 + 34) ☐

   (c)

   71 – 45 – 26

   71 – (45 – 26) ☐

3. Add brackets to make the horizontal forms correct.

   (a) 100 – 9 + 40 = 51

   (b) 45 – 21 – 14 – 25 = 13

   (c) 250 – 80 + 75 – 62 = 157

4. Which of the following has the correct result?

   ○ A. 36 + (25 – 18) = 56

   ○ B. 1136 – (214 + 115) = 807

   ○ C. 1137 – (232 + 98) = 800

   ○ D. 436 – (122 + 313) = 2

5. Which of the following has a different result from others?
   - ○ A. 1153 – 23 – 41
   - ○ B. 1153 – 23 + 41
   - ○ C. 1153 – (41 + 23)
   - ○ D. 1153 – (23 + 41)

6. Dad buys a bag of sweets of weight 2389 g. Hugo takes away 920 g of sweets. Elsa takes away 260 g less sweets than Hugo. Which of the following can be used to find the weight of the remaining sweets?
   - ○ A. 2389 – (920 + 920 – 260)
   - ○ B. 2389 – 920 – 260
   - ○ C. 2389 – 920 + 920 – 260
   - ○ D. 2389 – (920 + 920 + 260)

7. There are 195 red marbles, 215 yellow marbles and 450 green marbles in a bag. What is the difference between the number of green marbles and the total number of red and yellow marbles?

   _____ ○ (_____ ○ _____) = _____

   The difference is _____ .

8. A sofa costs $8755. A cabinet costs $6280. A bookcase is $3581 cheaper than a cabinet. How much more expensive is a sofa than a bookcase?

   _____ ○ (_____ ○ _____) = _____

   A sofa is $ _____ more expensive than a bookcase.

9. Write '+' or '–' in the ○ and add brackets to make the result of each horizontal form the largest.

   (a) 743 – (1028 ○ 591)

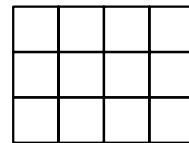   (b) 299 – (960 – 351) ○ 487

1. (a) ☐ of the whole figure on the right is coloured.   ☐ ①
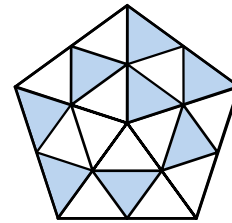
    (b) ☐ of the whole figure on the right is white.   ☐ ①

2. Colour $\dfrac{2}{3}$ of the whole figure on the right.   ☐ ①

3.   ☐ ①

    A sports equipment shop sold $\dfrac{1}{4}$ of the above footballs today. Circle the

    number of footballs sold.

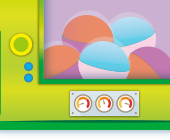4. Arrange the following fractions from the smallest to the largest.   ☐ ①

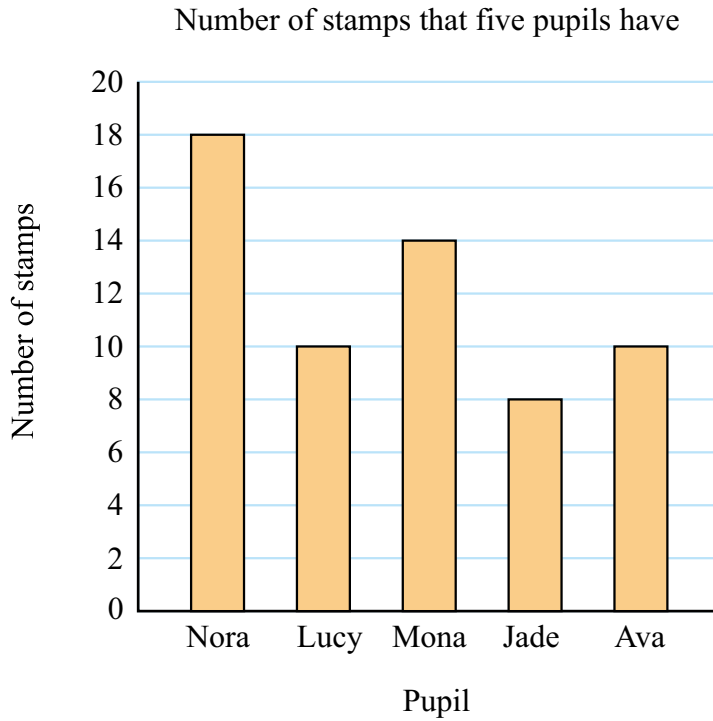 $$\frac{9}{14} \ , \ \frac{3}{14} \ , \ \frac{5}{14}$$

    Answer: ☐ , ☐ , ☐

    (Smallest)   (Largest)

5. $\dfrac{7}{10} + \dfrac{3}{10} =$ ☐   ☐ ②

15. The following bar chart shows the number of stamps that five pupils have.

Number of stamps that five pupils have

(a) _____ has the fewest stamps. She has _____ stamps only. ☐ ④

(b) These five pupils have _____ stamps altogether. ☐ ④

(c) _____ and _____ have the same number of stamps. Each ☐ ④

of them has _____ stamps.

Check

🔍 Self-Assessment Table

	Fair	Good	Great
① Understanding fractions	😣 (0–1)	🙂 (2–3)	😄 (4–5)
② Addition and subtraction of fractions	😣 (0–1)	🙂 (2–3)	😄 (4–5)
③ Capacity	😣 (0–1)	🙂 (2–3)	😄 (4–5)
④ Bar charts	😣 (0–1)	🙂 (2)	😄 (3)

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

Challenge 1

1. There are 86 seats in the school hall. There are 23 pupils in class 3A and 27 pupils in class 3B. After these two classes of pupils are seated in the school hall, how many empty seats are there? (Show your working)

What's wrong?
A few pupils fail to include brackets in the expression.

How to do it?
Use brackets to indicate the part to be calculated first.

Similar question: P.7 Q9

2. A bottle of milk costs 29 dollars. A carton of milk costs 8 dollars. Max buys 1 bottle and Ron buys 4 cartons. How much more does Ron pay than Max? (Show your working)

What's wrong?
A few pupils confuse the 'minuend' with the 'subtrahend' when writing the expression.

How to do it?
The larger number is on the left of the minus sign.

Similar question: P.11 Q11

3. $19 + 5 \times 4 =$
   - ○ A. 20
   - ○ B. 24
   - ○ C. 39
   - ○ D. 96

What's wrong?
A few pupils fail to master the arithmetic rule of 'multiplication first and then addition or subtraction'.

How to do it?
Find out all the multiplication signs before calculation.

Similar question: P.8 Q2

Glossary

Mixed operations of addition and subtraction

mixed operation	混合運算
brackets	括號 / 圓括號

Four arithmetic operations

four arithmetic operations	四則運算

Triangles

right-angled triangle	直角三角形
isosceles triangle	等腰三角形
equilateral triangle	等邊三角形
isosceles right-angled triangle	等腰直角三角形
scalene triangle	不等邊三角形
Venn diagram	温氏圖
tree diagram	樹形圖

Understanding fractions

the whole	整體
part	部分
equal parts	等份
fraction	分數
numerator	分子
denominator	分母
fraction line	分線
one-half	二分之一
one-third	三分之一
two-thirds	三分之二
equivalent fractions	等值分數

Addition and subtraction of fractions

addition sign	加號
P plus Q	P 加 Q
subtraction sign	減號
P minus Q	P 減 Q

Name: _____

Class: _____ ( )

Date: _____

Time: 10 min

Learning Objectives

① Recognise different types of triangles
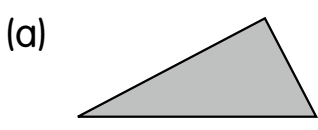② Recognise the relations between different types of triangles
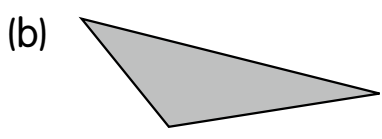③ Draw and make triangles

Self-Assessment

☑ Correct
☒ Incorrect

1. Write the names of the triangles.
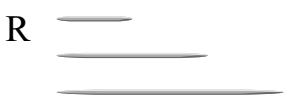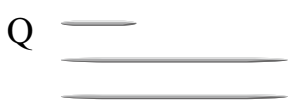
(a)

_____ triangle

(b)

_____ triangle

2. Which of the following triangles has 1 right angle?

○ A. Equilateral triangle
○ B. Isosceles triangle
○ C. Right-angled triangle
○ D. Scalene triangle

3. The lengths of the 3 sides of a triangle are 8 cm, 8 cm and 8 cm. This is

○ A. an equilateral triangle.
○ B. an isosceles triangle.
○ C. a right-angled triangle.
○ D. a scalene triangle.

4. Which of the following sets of sticks can make an isosceles triangle?

P

Q

R

S

Answer: _____