# Yr 6 Place Value Unit 4 (6143)

## Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

**Day 1 Subtracting pairs of 4-digit numbers Sheet 1**
Working towards ARE

**Day 1 Subtracting pairs of 5-digit numbers Sheet 2**
Working at ARE

**Day 1 Choosing a method for subtraction Sheet 3**
Greater Depth

**Day 2 Alphabet Archipelago Sheet 1**
Children Working towards ARE calculate the population figures for islands A to H.
Children Working at ARE calculate the population figures for islands I to Q.
Children working at Greater Depth calculate the population figures for islands R to Z.

# Subtracting pairs of 4-digit numbers

## Sheet 1

Will you count up (Frog) or use column subtraction? You choose...

1. 3458 - 1275 =
2. 9215 - 5853 =
3. 4569 - 2625 =
4. 5813 - 2368 =
5. 5890 - 4575 =
6. 6238 - 3645 =
7. 7572 - 3647 =
8. 7421 - 5489 =

**Challenge**

Predict what you will have left if you subtract 1234 repeatedly from 10,000. You may want to use frog to do the first subtraction.

# Subtracting pairs of 5-digit numbers

## Sheet 2

Choose the method of subtraction you use.

1. 75,369 - 35,826 =

2. 83,580 - 26,317 =

3. 64,329 - 32,876 =

4. 72,463 - 48,725 =

5. 50,756 - 38,249 =

6. 76,371 - 24,393 =

7. 62,341 - 46,586 =

8. 83,036 - 34,152 =

**Challenge**

Write two subtractions using 5-digit numbers. The first one should be one you would definitely do using Frog. The second should be one you would do using column subtraction. You must use all the digits 0-9 in each pair of subtractions, e.g. 71,820 - 65,349 which is a good one for Frog!

# Choosing a method for subtraction

Sheet 3

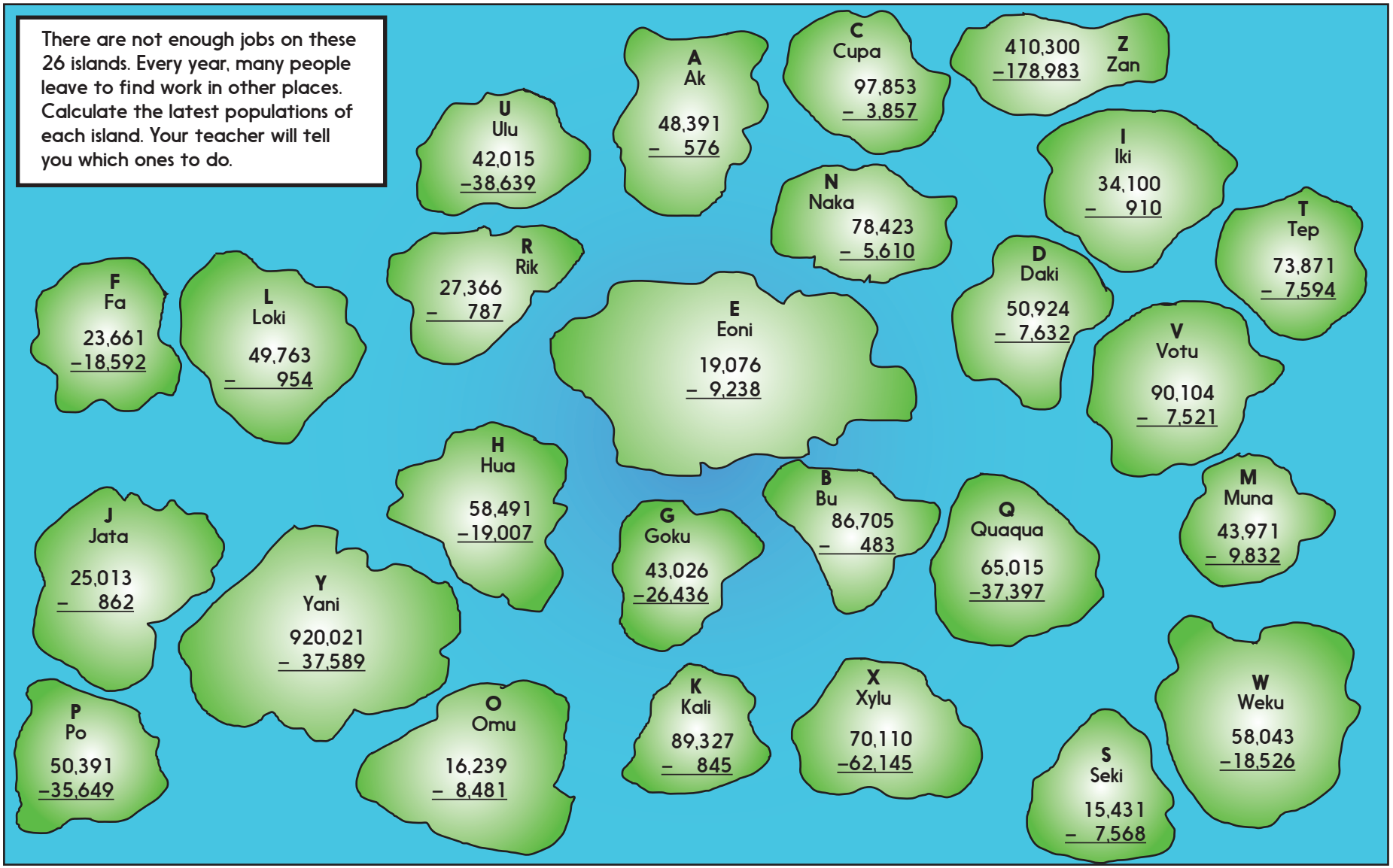
Which method will be most efficient: 'Frog' or column subtraction...?

1. 7803 – 5420
2. 5674 – 2715
3. 7124 – 5463
4. 8009 – 3475
5. 9874 – 3250
6. 5237 – 4301
7. 7025 – 6967
8. 8150 – 6344
9. 6000 – 4372
10. 50,000 – 47,895
11. 48,948 – 23,413
12. 40,002 – 39,789

# Alphabet archipelego

## Sheet 1

There are not enough jobs on these 26 islands. Every year, many people leave to find work in other places. Calculate the latest populations of each island. Your teacher will tell you which ones to do.



# Place value

## Answers

### Day 1 Sheet 1 Subtracting pairs of 4-digit numbers

1. 3458 - 1275 = **2183**
2. 9215 - 5853 = **3362**
3. 4569 - 2625 = **1944**
4. 5813 - 2368 = **3445**
5. 5890 - 4575 = **1315**
6. 6238 - 3645 = **2593**
7. 7572 - 3647 = **3925**
8. 7421 - 5489 = **1932**

**Challenge**

10,000 - 1234 = 8766 - 1234 = 7532 - 1234 = 6298 - 1234 = 5064 -1234 = 3830 - 1234 = 2596 - 1234 = 1362 - 1234 = **128**

### Day 1 Sheet 2 Subtracting pairs of 5-digit numbers

1. 75,369 - 35,826 = **39,543**
2. 83,580 - 26,317 = **57,263**
3. 64,329 - 32,876 = **31,453**
4. 72,463 - 48,725 = **23,738**
5. 50,756 - 38,249 = **12,507**
6. 76,371 - 24,393 = **51,978**
7. 62,341 - 46,586 = **15,755**
8. 83,036 - 34,152 = **48,884**

**Challenge**

Children will have a range of answers to this challenge. Ensure they have made their first calculation one which should be done using Frog. HINT it is usually easier to use Frog if the larger number has 2 or 3 zeros in it, or is close to a multiple of 1000, like 5013.

### Day 1 Sheet 3 Choosing a method for subtraction

1. 7803 - 5420 = **2383**
2. 5674 - 2715 = **2959**
3. 7124 - 5463 = **1661**
4. 8009 - 3475 = **4534**
5. 9874 - 3250 = **6624**
6. 5237 - 4301 = **936**
7. 7025 - 6967 = **58**
8. 8150 - 6344 = **1806**
9. 6000 - 4372 = **1628**
10. 50,000 - 47,895 = **2105**
11. 48,948 - 23,413 = **25,535**
12. 40,002 - 39,789 = **213**

# Place value

## Answers

**Day 2 Sheet 1 Alphabet archipelego**

Ak = 47,815
Bu = 86,222
Cupa = 93,996
Daki = 43,292
Eoni = 9,838
Fa = 5,069
Goku = 16,590
Hua = 39,484
Iki = 33,190
Jata = 24,151
Kali = 88,482
Loki = 48,809
Muna = 34,139
Naka = 72,813
Omu = 7,758
Po = 14,742
QuaQua = 27,618
Rik = 26,579
Seki = 7,863
Tep = 66,277
Ulu = 3,376
Votu = 82,583
Weku = 39,517
Xylu = 7,965
Yani = 882,432
Zan = 231,317