# MATHEMATICS

# Grade 4

# English

# Learner Activity Book

## 2020 TERM 1

# Introduction

This resource pack has numbered daily activities for classwork and homework for all the lessons in Term 1. The activities correspond to the activities in the Lesson Plans.

Answers to the activities can be written in this book.

If learners work systematically through these maths activities, they will cover the whole curriculum. Hopefully these activities will be a fun way to help them acquire this maths knowledge.

# Contents


| | |
|---|---|
| Introduction | iii |
| Lesson 1: 3-digit numbers | 1 |
| Lesson 2: 4-digit numbers | 6 |
| Lesson 3: 5-digit numbers | 8 |
| Lesson 4: 6-digit numbers | 10 |
| Lesson 5: Order, compare and represent numbers | 13 |
| Lesson 6: Comparing numbers | 15 |
| Lesson 7: Consolidation | 18 |
| Lesson 8: Adding and subtracting | 20 |
| Lesson 9: Multiplying by 10, 100 and 1 000 | 23 |
| Lesson 10: Dividing by 10, 100 and 1 000 | 26 |
| Lesson 11: Consolidation | 29 |
| Lesson 12: Adding multiples of 1 000 | 31 |
| Lesson 13: Subtracting multiples of 10 000 | 33 |
| Lesson 14: Using the column method to add numbers up to 5 digits | 36 |
| Lesson 15: Using any strategy to add | 40 |
| Lesson 16: Consolidation | 44 |
| Lesson 17: Using the column method to subtract 5-digit numbers | 47 |
| Lesson 18: Using the column method to subtract 6-digit numbers | 51 |
| Lesson 19: Subtracting 5- and 6-digit numbers | 56 |
| Lesson 20: Using other methods to subtract big numbers | 60 |
| Lesson 21: Adding and subtracting big numbers | 65 |
| Lesson 22: Consolidation | 70 |
| Lesson 23: Assignment | 73 |
| RESOURCES | 75 |

# Lesson 1: 3-digit numbers

## Mental maths

| | Count forwards in: | Answer |
|---|---|---|
| **1** | 1s from 109 to 115 | |
| **2** | 1s from 97 to 104 | |
| **3** | 2s from 106 to 116 | |
| **4** | 2s from 96 to 110 | |
| | **Count backwards:** | |
| **5** | In 1s. Start at 113 and finish at 108 | |
| **6** | In 1s. Start at 104 and finish at 96 | |
| **7** | In 2s. Start at 116 and finish at 106 | |
| **8** | In 2s. Start at 106 and finish at 92 | |

## Activity 1

**1** Write the number 692 in words

_____

**2** Add 1 to 692. Write the new number in number symbols and in words

_____

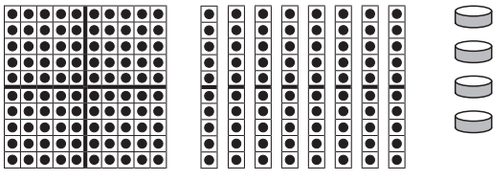
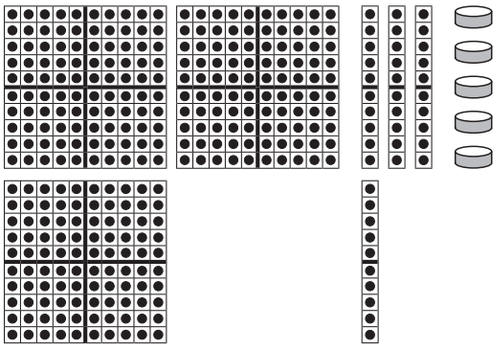
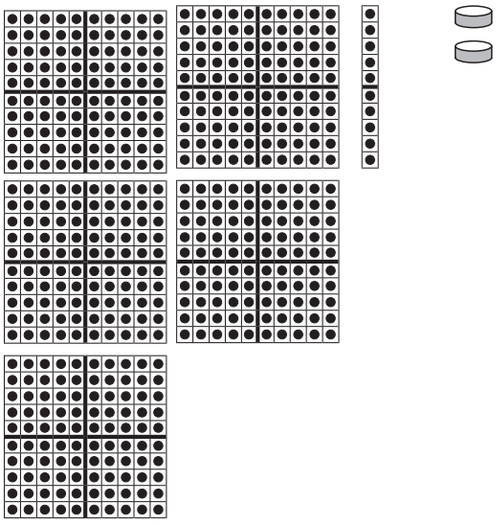
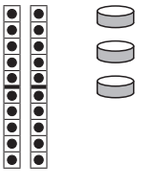
**3** Write the number 431 in words

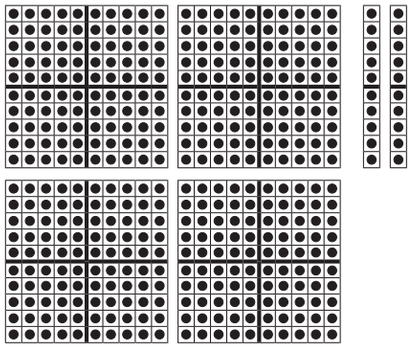
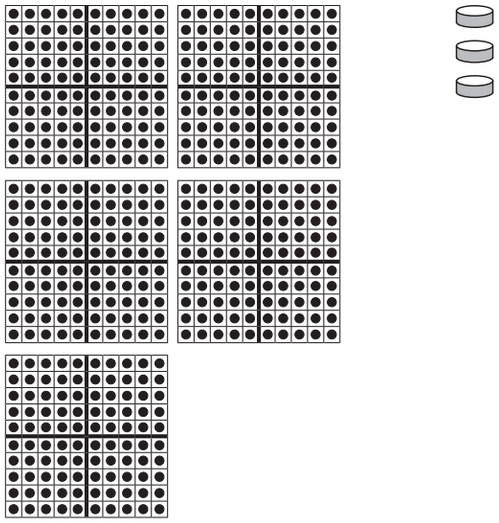
_____

**4** Subtract 1 from 431. Write the new number in symbols and in words.

_____

## Activity 2

| | | Write the number in symbols | Write the number in words | How many hundreds? |
|---|---|---|---|---|
| **Example** |  | **184** | **One hundred and eighty-four** | **1 or one** |
| **1** |  | | | |
| **2** |  | | | |
| **3** |  | | | |

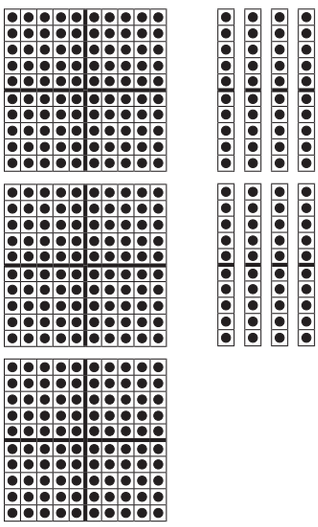
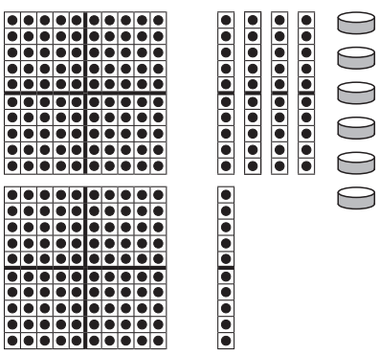
| | | | | |
|---|---|---|---|---|
| **4** |  | | | |
| **5** |  | | | |

## Activity 3

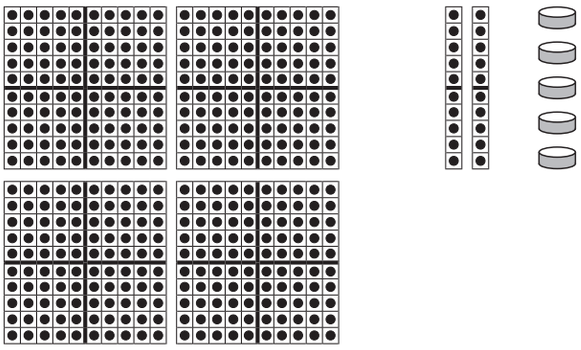
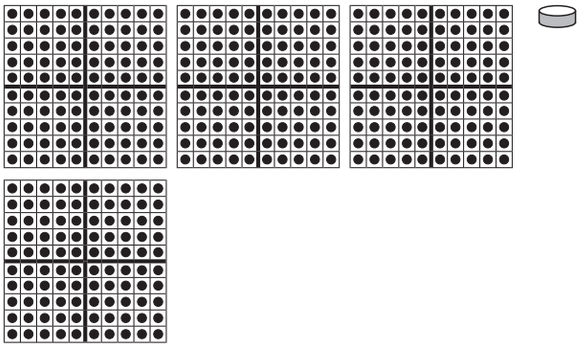
### 1)

| | | How many hundreds? | Add 3 hundreds | Because |
|---|---|---|---|---|
| **Example** | **651** | **6 or six** | **951** | **(6 + 3) hundreds = 9 hundred<br>No change in tens and ones** |
| **a** | 393 | | | |
| **b** | 467 | | | |
| **c** | 560 | | | |
| **d** | 32 | | | |

**2)**

| | | How many hundreds? | Subtract 2 hundreds | Because |
|---|---|---|---|---|
| **Example** | **797** | **7 or seven** | **597** | **(7 – 2) hundred = 5 hundred**<br>**No change in tens and ones** |
| **a** | 699 | | | |
| **b** | 537 | | | |
| **c** |  | | | |
| **d** |  | | | |

## HOMEWORK

| | | How many hundreds? | Subtract 3 hundreds |
|---|---|---|---|
| **1** |  | | |
| **2** |  | | |
| **3** | 549 | | |
| **4** | 869 | | |
| **5** | 346 | | |
| **6** | 700 | | |

# Lesson 2: 4-digit numbers

## Mental maths

| | Count forwards in: | Answer |
|---|---|---|
| **1** | 2s from 594 to 604 | |
| **2** | 2s from 585 to 595 | |
| **3** | 5s from 580 to 605 | |
| **4** | 10s from 580 to 620 | |
| | **Count backwards in:** | |
| **5** | 1s from 603 to 597 | |
| **6** | 2s from 614 to 604 | |
| **7** | 5s from 610 to 590 | |
| **8** | 10s from 615 to 585 | |

## Activity 3

### 1)

| | | How many thousands? | Add 3 thousands | Because |
|---|---|---|---|---|
| **Example** | **3 951** | **3 or three** | **6 951** | **(3 + 3) thousands = 6 thousands.**<br>**No change in other places.** |
| **a** | 4 609 | | | |
| **b** | 5 899 | | | |
| **c** | 2 416 | | | |
| **d** | 895 | | | |

**2)**

| | | How many thousands? | Subtract 2 thousands | Because |
|---|---|---|---|---|
| **Example** | **7 695** | **7 or seven** | **5 695** | **(7 – 2) thousands = 5 thousands**<br>**No change in other places.** |
| **a** | 3 450 | | | |
| **b** | 6 002 | | | |
| **c** | 2 978 | | | |
| **d** | 5 000 | | | |

**HOMEWORK**

**1** Write the number four thousand five hundred and eight as a number

_____

**2** Draw a circle around the digit that represents thousands in the number 5 798.

**5 798**

**3** How many thousands in 5 123? _____

**4** Add 5 Th to 4 174 _____

**5** Subtract 3 000 from 7 982 _____

# Lesson 3: 5-digit numbers

## Mental maths

| | Count forwards in: | Answer |
|---|---|---|
| **1** | 5s from 885 to 910 | |
| **2** | 10s from 880 to 930 | |
| **3** | 10s from 887 to 937 | |
| **4** | 20s from 860 to 940 | |
| | **Count backwards in:** | |
| **5** | In 5s. Start at 915 and end at 880 | |
| **6** | In 10s. Start at 915 and end at 885 | |
| **7** | In 20s. Start at 940 and end at 860 | |
| **8** | In 20s. Start at 930 and end at 870 | |

## Activity 4

**1** Draw a line to match the numbers with the correct words

| | |
|---|---|
| 49 671 | Forty thousand, six hundred and one |
| 40 601 | Forty thousand, six hundred and seventy-one |
| 49 601 | Forty-nine thousand, six hundred and seventy-one |
| 40 671 | Forty-nine thousand, six hundred and one |

**2** How many thousands in 48 734? _____

**3** How many ten thousands in 48 734? _____

**4** Write one even number that is bigger than 39 541 and smaller than 39 549.

_____

**5** Write one odd number between 68 908 and 68 915. _____

**HOMEWORK**

**1** How many thousands in 34 596? _____

**2** How many ten thousands in 34 596? _____

**3** Write one odd number that is bigger than 67 453 and smaller than 67 458

_____

**4** Write one even number that is bigger than 30 898 and smaller than 30 902

_____

**5** Write eighty-four thousand, six hundred and twenty-two in number symbols

_____

# Lesson 4: 6-digit numbers

## Mental maths

| | Count forwards in: | Answer |
|---|---|---|
| **1** | 50s from 350 to 600 | |
| **2** | 50s from 800 to 1 100 | |
| **3** | 100s from 400 to 700 | |
| **4** | 100s from 600 to 1 300 | |
| | **Count backwards:** | |
| **5** | 50s from 1 000 to 850 | |
| **6** | 50s from 200 to 0 | |
| **7** | 100s from 400 to 0 | |
| **8** | 100s from 1 500 to 900 | |

## Activity 1

**1** Write "Seven hundred and fifteen thousand, three hundred and sixty-two" in number form.

_____

**2** What digit is in the HTh place in 715 362? _____

**3** What digit is in the TTh place in 715 362? _____

**4** What digit is in the Th place in 715 362? _____

**5** How many HTh must I add to 715 362 to get 915 362? _____

**Activity 2**

Write these numbers in expanded notation:

**1** 4 521 _____

_____

**2** 4 021 _____

_____

**3** 87 235 _____

_____

**4** 80 235 _____

_____

**5** 6 470 _____

_____

**HOMEWORK**

**1** Underline the HTh digits in this number: **761 379.**

**2** Write the number "Three hundred and forty-nine thousand, seven hundred and twenty-six" in number form.

_____

**3** How many HTh must I subtract from 756 411 to get 56 411? _____

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | 7 | 5 | 6 | 4 | 1 | 1 |
| — | | | | | | |
| | | 5 | 6 | 4 | 1 | 1 |

_____

**4** Write the number 128 563 in expanded notation.

_____

_____

**5** Write the number 304 621 in expanded notation

_____

_____

# Lesson 5: Order, compare and represent numbers

## Mental maths

| | Count forwards in: | Answer |
|---|---|---|
| **1** | Start at 450. Count forwards in 100s to 850 | |
| **2** | Start at 572. Count forwards in 100s to 972 | |
| **3** | Start at 1. Count forwards in 100s to 501 | |
| **4** | Start at 399. Count forwards in 100s to 799 | |
| | **Count backwards:** | |
| **5** | Start at 437. Count backwards in 100s to 37 | |
| **6** | Start at 509. Count backwards in 100s to 9 | |
| **7** | Start at 511. Count backwards in 100s to 11 | |
| **8** | Start at 632. Count backwards in 100s to 232 | |

## Activity 1

Fill in <, > or = to make the number sentence true

**1** 18 432 ..... 18 532

**2** 26 299 ..... 25 000

**3** 8 999 ..... 80 999

**4** 78 562 ..... 78 562

**5** 20 002 ..... 20 001

### Activity 2

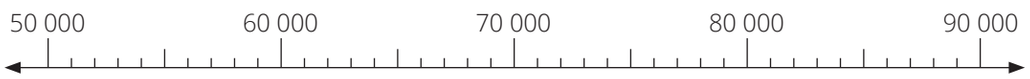
Write the numbers from smallest to biggest

**1** 1 567; 1 245; 3 465; 9 982. _____

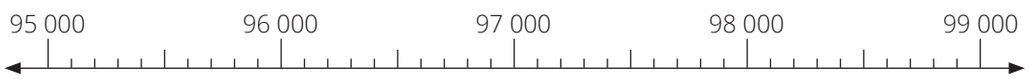
**2** 80 974; 66 745; 8 512. _____

### Activity 3

**1** Show the numbers 66 000 and 81 000 on this number line:




**2** Show the numbers 95 100 and 96 500 on this number line:




**HOMEWORK**

**1** Fill in <, > or = to make the number sentence true

61 321..... 60 231

**2** Write these numbers from biggest to smallest: 48 933; 38 393; 43 585

_____

**3** Show 69 000 and 83 000 on the number line

# Lesson 6: Comparing numbers

## Mental maths

| | Multiples | Answer |
|---|---|---|
| **1** | List the multiples of 1 000 from 0 to 6 000 | |
| **2** | List the multiples of 1 000 between 0 and 6 000 | |
| **3** | List the multiples of 1 000 from 5 000 to 10 000 | |
| **4** | List the multiples of 1 000 between 5 000 and 10 000 | |
| **5** | 6 × 1 000 | |
| **6** | 1 000 × 4 | |

## Activity 1

Fill in <, > or = to make the sentence true

**1** 189 612 ..... 187 354

**2** 145 368 ..... 145 668

**3** 132 206 ..... 132 206

**4** 46 200 ..... 246 200

**5** 99 999 ..... 99 998

## Activity 2

**1** Arrange these numbers from biggest to smallest:
98 456 89 467 9 467 99 231 99 201

_____

**2** Arrange these numbers from smallest to biggest:
20 010 21 000 20 100 21 100 20 001

_____

## Activity 3

**1** Write the number between 346 296 and 346 298 _____

**2** Write the number between 271 369 and 271 371 _____

**3** Write an even number between 456 712 and 456 716 _____

**4** Write an odd number between 267 947 and 267 950 _____

**HOMEWORK**

**1** How many hundred thousands in 380 645? _____

**2** Compare the two numbers by writing < or >.

32 681 ..... 32 677

**3** Write < or > to make the number sentence true.

145 401 ..... 145 410

**4** Write these numbers in order from smallest to biggest:

144 509  4 567  104 569  140 589

_____

**5** How many HTh must I add to 69 871 to get 169 871? _____

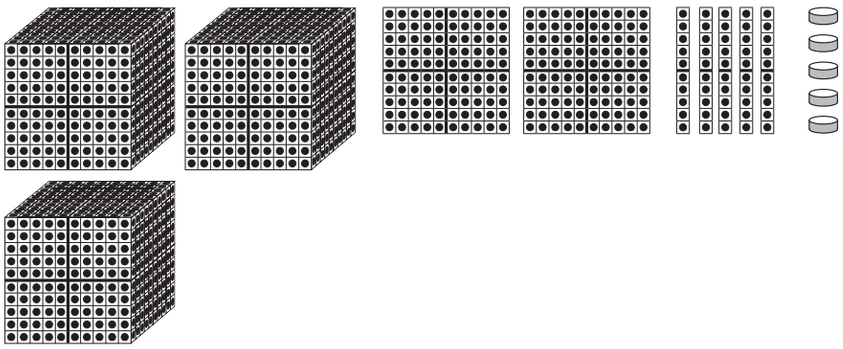
# Lesson 7: Consolidation

## Mental maths

| | Multiples | Answer |
|---|---|---|
| **1** | List the multiples of 1 000 from 20 000 to 25 000 | |
| **2** | List the multiples of 10 000 from 650 000 to 700 000 | |
| **3** | List the multiples of 100 000 from 300 000 to 800 000 | |
| **4** | 45 × 1 thousand | |
| **5** | 32 × 1 ten thousand | |
| **6** | 6 × 1 hundred thousand | |

## Consolidation

**1** Write the number represented by the Base 10 blocks:



_____

**2** What number is represented on the Place Value cards:

_____

**3** Underline the HTh digit in the number 671 304.

**4** What is the place value of the digit underlined in the number 9<u>0</u> 285?

_____

**5** Fill in <, > or = to make the number sentences true.

**a** 348 980 ..... 438 980

**b** 871 456 ..... 871 456

**c** 29 709 ..... 129 710

**6** Write the numbers in order from smallest to biggest:
145 670 146 670 158 798 159 000 45 670

_____

**7** Write the numbers in expanded notation:

**a** 567 924

_____

_____

**b** 608 002

_____

_____

# Lesson 8: Adding and subtracting

## Mental maths

| | What is ... | Answer | | What is ... | Answer |
|---|---|---|---|---|---|
| **1** | 8 + 7 | | **6** | 14 – 4 | |
| **2** | 4 + 9 | | **7** | 87 + 5 | |
| **3** | 56 + 3 | | **8** | 81 – 5 | |
| **4** | 56 – 3 | | **9** | 43 + 9 | |
| **5** | 14 + 4 | | **10** | 43 – 9 | |

## Activity 1

**1** 6 000 + 8 000 = _____

**2** 50 000 + 30 000 = _____

**3** 200 000 + 90 000 = _____

**4** 19 000 – 11 000 = _____

**5** 50 000 – 1 000 = _____

**6** 750 000 – 50 000 = _____

## Activity 2

| | Calculate | Answer | Rewrite the number sentence |
|---|---|---|---|
| **1** | 3 HTh + 5 HTh = | 8 HTh | 300 000 + 500 000 = 800 000 |
| **2** | 15 TTh + 7 TTh = | _____ | _____ |
| **3** | Forty thousand + seventeen thousand = | _____ | _____ |
| **4** | 13 TTh – 4 TTh = | _____ | _____ |
| **5** | 47 HTh – 40 HTh = | _____ | _____ |
| **6** | 46 thousand – 13 thousand = | _____ | _____ |

## Activity 3

Find answers to the calculations. Use 45 + 19 = 64, and 53 – 19 = 34

**1** 45 000 + 19 000 = _____

**2** 530 000 – 190 000 = _____

**3** 45 TTh + 19 TTh = _____

**4** 530 000 – 190 000 = _____

**HOMEWORK**

| | Calculate | Answer | Rewrite the number sentence |
|---|---|---|---|
| **1** | 3 HTh + 7 HTh = | 10 HTh | 300 000 + 700 000 = 1 000 000 |
| **2** | 17 TTh – 7 TTh = | _____ | _____ |
| **3** | 830 000 – 130 000 = | _____ | _____ |
| **4** | 15 thousand – 9 thousand = | _____ | _____ |
| **5** | 140 Th – 50 Th = | _____ | _____ |

# Lesson 9: Multiplying by 10, 100 and 1 000

### Mental maths

| | | Answer |
|---|---|---|
| **1** | List the multiples of 10 from 0 to 60 | |
| **2** | List the multiples of 10 from 290 to 340 | |
| **3** | List the multiples of 10 between 570 and 620 | |
| **4** | List the multiples of 10 between 960 and 1 000 | |
| **5** | 39 × 10 | |
| **6** | 10 × 43 | |

### Activity 1

**1** 1 × 10 = _____ 1 × 100 = _____ 1 × 1 000 = _____

**2** 2 × 10 = _____ 2 × 100 = _____ 2 × 1 000 = _____

**3** 9 × 10 = _____ 9 × 100 = _____ 9 × 1 000 = _____

**4** 15 × 10 = _____ 15 × 100 = _____ 15 × 1 000 = _____

**5** 37 × 10 = _____ 37 × 100 = _____ 37 × 1 000 = _____

**6** 48 × 10 = _____ 48 × 100 = _____ 48 × 1 000 = _____

**7** 73 × 10 = _____ 73 × 100 = _____ 73 × 1 000 = _____

**8** Discuss a rule we can use for multiplying by 10.

Discuss a rule we can use for multiplying by 100.

Discuss a rule we can use for multiplying by 1 000.

**Activity 2**

Calculate

**1** 8 × 100 = _____

**2** 17 × 10 = _____

**3** 7 × 1 000 = _____

**4** 22 × 100 = _____

**5** 123 × 10 = _____

**6** 34 × 1 000 = _____

**7** 421 × 100 = _____

**8** 629 × 1 000 = _____

**9** 3 500 × 10 = _____

**10** 250 × 1 000 = _____

**HOMEWORK**

**1** If one banana costs 95 cents, how many cents will 10 bananas cost?

_____

**2** If one banana costs 95 cents, how many cents will 100 bananas cost?

_____

**3** 16 × 1 000 = _____

**4** 143 × 100 = _____

# Lesson 10: Dividing by 10, 100 and 1 000

### Mental maths

| | | Answer |
|---|---|---|
| **1** | List the multiples of 100 from 900 to 1 400 | |
| **2** | List the multiples of 100 between 6 400 and 7 000 | |
| **3** | List the multiples of 100 from 7 800 to 8 200 | |
| **4** | List the multiples of 100 between 0 and 800 | |
| **5** | 43 ×100 | |
| **6** | 100 × 60 | |

### Activity 1

**1** 1 000 ÷ 10 = _____ 1 000 ÷ 100 = _____ 1 000 ÷ 1 = _____

**2** 2 000 ÷ 10 = _____ 2 000 ÷ 100 = _____ 2 000 ÷ 1 000 = _____

**3** 15 000 ÷ 10 = _____ 15 000 ÷ 100 = _____ 15 000 ÷ 1 000 = _____

**4** 22 000 ÷ 10 = _____ 22 000 ÷ 100 = _____ 22 000 ÷ 1 000 = _____

**5** 35 000 ÷ 10 = _____ 35 000 ÷ 100 = _____ 35 000 ÷ 1 000 = _____

**6** 48 000 ÷ 10 = _____ 48 000 ÷ 100 = _____ 48 000 ÷ 1 000 = _____

**7** 78 000 ÷ 10 = _____ 78 000 ÷ 100 = _____ 78 000 ÷ 1 000 = _____

**8**

| Discuss a rule we can use for dividing by 10. | Discuss a rule we can use for dividing by 100. | Discuss a rule we can use for dividing by 1 000. |
|---|---|---|
| To divide a number by 10, move the numbers _____ place to the right. | To divide a number by 100, move the numbers _____ place to the right. | To divide a number by 1 000, move the numbers _____ place to the right. |

**Activity 2**

**1** 60 ÷ 10 = _____

**2** 350 ÷ 10 = _____

**3** 4 800 ÷ 10 = _____

**4** 4 800 ÷ 100 = _____

**5** 6 000 ÷ 100 = _____

**6** 6 000 ÷ 1 000 = _____

**7** 47 000 ÷ 10 = _____

**8** 47 000 ÷ 100 = _____

**9** 47 000 ÷ 1 000 = _____

**HOMEWORK**

**1** If 10 bricks cost R20, how much will one brick cost?

_____

**2** If 100 bricks cost R300, how much will one brick cost?

_____

**3** 41 000 ÷ 1 000 = _____

**4** 13 600 ÷ 100 = _____

**5** 400 000 ÷ 100 = _____

**6** 580 000 ÷ 10 = _____

# Lesson 11: Consolidation

## CONSOLIDATION ACTIVITIES

**1** Look at the example and then do the calculations.

Example: Tia has saved R2 100 and Nina has saved R 1 400.

**a** How much have they saved altogether?

Number sentence: 2 100 + 1 400 = ☐

21 hundred + 14 hundreds = ☐

21 + 14 = 35

So, 2 100 + 1 400 = 3 500

They have saved R3 500 altogether.

**b** How much more has Tia saved?

Number sentence: 2 100 – 1 400 = ☐

21 hundreds – 14 hundreds = ☐

21 – 14 = 7

So, 2 100 – 1 400 = 700

Tia has saved R700 more than Nina.

Now try these:

**a** 120 000 + 230 000 = _____

**b** 2 352 000 – 12 000 = _____

**c** 18 TTh + 11 TTh = _____

**d** 129 HTh – 18 HTh = _____

**2** Look at the example and then do the calculations.

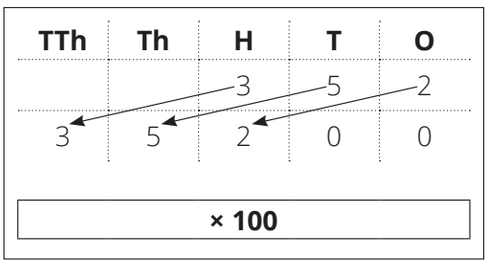
Example: If one dog eats 350 g of food a day, how much food will the dog eat for 10 days?

Number sentence:

$10 \times 350 = \square$

$10 \times 350 = 3\,500$

The dog will eat 3 500 g of food over 10 days.




Now try these:

**a** $79 \times 10 =$ _____

**b** $37 \times 100 =$ _____

**c** $53 \times 1\,000 =$ _____

**d** $12\,500 \times 10 =$ _____

**3** Look at the example and then do the calculations.

Example: If 10 workers laid 480 bricks, how many bricks did one worker lay?

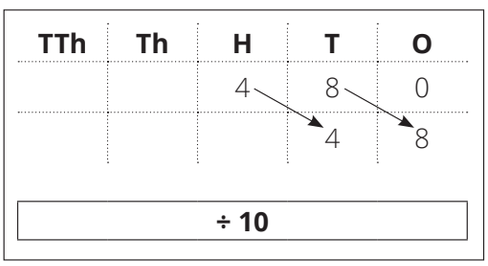
Number sentence:

$480 \div 10 = \square$

Think of 480 as $48 \times 10$

$480 \div 10 = 48$

One worker laid 48 bricks.




Now try these:

**a** $560 \div 10 =$ _____

**b** $12\,300 \div 100 =$ _____

**c** $87\,000 \div 10 =$ _____

**d** $325\,000 \div 1\,000 =$ _____

# Lesson 12: Adding multiples of 1 000

**Mental maths**

| | | Answer |
|---|---|---|
| **1** | List the multiples of 1 000 from 0 to 4 000 | |
| **2** | List the multiples of 1 000 between 5 000 and 8 000 | |
| **3** | List the multiples of 1 000 from 6 000 to 10 000 | |
| **4** | 9 × 1 000 | |
| **5** | 10 ×1 000 | |
| **6** | 1 000 × 3 | |

**Activity 1**

**1** 3 000 + 5 000 = _____

**2** 16 000 + 9 000 = _____

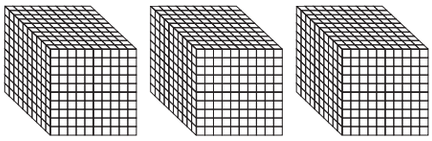
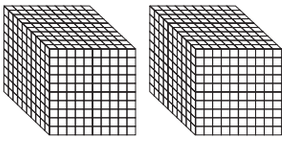
**3** 42 Th + 13 Th = _____

**4** 38 000 + 50 000 = _____

**5** 21 thousand plus 21 thousand = _____

**6** Given: 48 + 17= 65. What is 48 000 + 17 000? _____

## Activity 2

**1**  +  = _____

**2** 5 000 + 2 000 = _____

**3** 74 Th + 6 Th = _____

**4** 26 000 + 10 000 = _____

**5** 40 000 + 50 000 = _____

### HOMEWORK

**1** List the multiples of 1 000 between 197 000 and 202 000.

_____

_____

**2** What is 12 000 + 34 000? _____

**3** Find the sum of 17 000 and 16 000. _____

**4** 43 000 + 145 000 = _____

**5** 71 Th + 19 Th = _____

# Lesson 13: Subtracting multiples of 10 000

**Mental maths**

| | | Answer |
|---|---|---|
| **1** | List the multiples of 1 000 from 43 000 to 46 000 | |
| **2** | List the multiples of 1 000 between 30 000 and 35 000 | |
| **3** | List the multiples of 1 000 from 6 000 to 10 000 | |
| **4** | 50 × 1 000 | |
| **5** | 33 ×1 000 | |
| **6** | 1 000 × 29 | |

**Activity 1**

**1** 30 000 – 20 000 = _____

**2** 60 000 – 30 000 = _____

**3** 6 TTh – 1 TTh = _____

**4** 70 000 – 10 000 = _____

**5** 2 ten thousands – 2 ten thousands = _____

**6** What is 80 000 minus 60 000? _____

## Activity 2

**1** 90 000 – 70 000 = ☐ _____

**2** 50 000 – 50 000 = ☐ _____

**3** 8 TTh – 3 TTh = ☐ _____

**4** 70 000 – 40 000 = ☐ _____

**5** 6 ten thousands – 5 ten thousands = ☐ _____

**6** What is 40 000 minus 20 000? _____

**HOMEWORK**

| | Can be written as | Written as a numeral |
|---|---|---|
| **Example 40 000 – 30 000 =** | **4 TTh – 3 TTh = 1 TTh** | **10 000** |
| **1** 60 000 – 40 000 = | _____ | _____ |
| **2** 70 000 – 70 000 = | _____ | _____ |
| **3** 90 000 – 50 000 = | _____ | _____ |
| **4** 80 000 – 10 000 = | _____ | _____ |
| **5** 50 000 – 30 000 = | _____ | _____ |

# Lesson 14: Using the column method to add numbers up to 5 digits

### Mental maths

| | What is ... | Answer | | What is ... | Answer |
|---|---|---|---|---|---|
| **1** | 9 + 7 = | | **6** | 7 + 6 = | |
| **2** | 8 +2 = | | **7** | 4 + 8 = | |
| **3** | 3 + 9 = | | **8** | 6 + 6 = | |
| **4** | 5 + 8 = | | **9** | 8 + 3 = | |
| **5** | 8 + 9 = | | **10** | 9 + 9 = | |

### Activity 2

Calculate

**1**

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 1 | 9 | 2 | 3 | 5 |
| + | 3 | 0 | 6 | 2 | 4 |
| | | | | | |

**2**

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 4 | 0 | 6 | 3 | 7 |
| + | 5 | 8 | 5 | 1 | 4 |
| | | | | | |

**3**

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | | 3 | 2 | 7 | 6 |
| + | 4 | 8 | 5 | 3 | 5 |
| | | | | | |

**4**

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 3 | 0 | 7 | 5 | 4 |
| + | 1 | 8 | 4 | 4 | 8 |
| | | | | | |

**5**

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 1 | 3 | 6 | 7 | 9 |
| + | | | 3 | 4 | 8 |
| | | | | | |

## Activity 3

**1** 14 392 + 28 419 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| + | | | | | |
| | | | | | |

**2** Calculate: 70 345 + 8 219 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| + | | | | | |
| | | | | | |

**3** Solve: 675 + 80 669 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| + | | | | | |
| | | | | | |

**4** Solve: 7 457 + 4 509 =

**5** Solve: 60 715 + 9 300 =

**HOMEWORK**

**1** Calculate: 23 209 + 41 678 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| + | | | | | |
| | | | | | |

**2** Calculate: 3 456 + 980 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | 1 | 9 | 2 | 3 | 5 |
| + | 3 | 0 | 6 | 2 | 4 |
| | | | | | |

**3** Solve: 80 319 + 8 245 =

# Lesson 15: Using any strategy to add

### Mental maths

| | What is ... | Answer | | What is ... | Answer |
|---|---|---|---|---|---|
| **1** | 6 + 5 = | | **6** | 9 + 6 = | |
| **2** | 5 + 5 = | | **7** | 7 + 5 = | |
| **3** | 5 + 9 = | | **8** | 7 + 7 = | |
| **4** | 8 + 8 = | | **9** | 4 + 9 = | |
| **5** | 7 + 3 = | | **10** | 8 + 3 = | |

### Activity 2

**1** Calculate 35 271 + 42 710 by writing in expanded notation and then adding.

Write 35 271 in expanded notation _____

_____

Write 42 710 in expanded notation _____

_____

Add the ten thousands _____

Add the thousands _____

Add the hundreds _____

Add the tens _____

Add the ones _____

Add them all together _____

**2** Calculate 94 609 + 4 391 by writing in expanded notation and then adding.

Write 94 609 in expanded notation _____

_____

Write 4 391 in expanded notation _____

_____

Add the ten thousands _____

Add the thousands _____

Add the hundreds _____

Add the tens _____

Add the ones _____

Add them all together _____

**Activity 3**

**1** Calculate 53 219 + 24 670 by writing the second number in expanded notation and then adding each place value part to the first number.

Step 1: Write the second number in expanded notation. _____

_____

Step 2: Add the TTh to the first number. _____

Step 3: Add the Th to Step 2. _____

Step 4: Add the H to Step 3. _____

Step 5: Add the T to Step 4. _____

Step 6: Add the O to Step 5. _____

This is the final answer

**2** Calculate 76 408 + 23 591 by writing the second number in expanded notation and then adding each place value part to the first number.

Step 1: Write the second number in expanded notation. _____

_____

Step 2: Add the TTh to the first number. _____

Step 3: Add the Th to Step 2. _____

Step 4: Add the H to Step 3. _____

Step 5: Add the T to Step 4. _____

Step 6: Add the O to Step 5. _____

This is the final answer

**HOMEWORK**

**1** Calculate 61 218 + 38 231 = ☐

**2** Find the sum of 22 311 and 13 176.

**3** Calculate 13 767 + 31 201 = ☐

# Lesson 16: Consolidation

## CONSOLIDATION ACTIVITY

**1** There are two used cars for sale. The red car costs R24 000 and the blue car costs R18 000.

**Hint:** Think of 24 000 as 24 × 1 000 and think of 18 000 as 18 × 1 000

**a** How much do the two cars cost in total? _____

**b** How much less does the blue car cost? _____

**2** Calculate

**a** 50 000 + 20 000 = _____

**b** 90 000 – 30 000 = _____

**c** 8 TTh + 5 TTh = _____

**d** 46 000 – 23 000 = _____

**3** **a** Find answers to

45 + 28 = _____

45 – 28 = _____

**b** Use your calculations in a) to help you find answers to these calculations:

45 000 + 28 000 = _____

4 500 + 2 800 = _____

45 TTh + 28 TTh = _____

45 TTh – 28 TTh = _____

**4** Calculate. Use the column method

**a** 23 671 + 28 209

**b** 31 242 + 17 560

**5** Calculate. Use expanded notation.

**a** 41 878 + 23 241

**b** 16 004 + 28 972

# Lesson 17: Using the column method to subtract 5-digit numbers

### Mental maths

| | What is … | Answer | | What is … | Answer |
|---|---|---|---|---|---|
| **1** | 18 – 9 = | | **6** | 15 – 6 = | |
| **2** | 13 – 5 = | | **7** | 17 – 9 = | |
| **3** | 11 – 6 = | | **8** | 11 – 2 = | |
| **4** | 12 – 7 = | | **9** | 13 – 7 = | |
| **5** | 14 – 8 = | | **10** | 15 – 8 = | |

### Activity 2

Calculate. You may use your Base 10 kit if you want to.

**1** 4 362 – 3 272

| | Th | H | T | O |
|---|---|---|---|---|
| | | | | |
| | 4 | 3 | 6 | 2 |
| – | 3 | 2 | 7 | 2 |
| | | | | |

**2** 76 287 – 32 196

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 7 | 6 | 2 | 8 | 7 |
| – | 3 | 2 | 1 | 9 | 6 |
| | | | | | |

**3** 81 406 – 23 394

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 8 | 1 | 4 | 0 | 6 |
| – | 2 | 3 | 3 | 9 | 4 |
| | | | | | |

**4** 56 345 – 27 423

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | 5 | 6 | 3 | 4 | 5 |
| – | 2 | 7 | 4 | 2 | 3 |
| | | | | | |

## Activity 3

Calculate. You may use your Base 10 kit if you want to.

**1** 14 465 – 12 574 = ☐

**2** 93 269 – 48 354 = ☐

**3** 46 361– 11 549 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**4** 56 326 – 55 417 = ☐

| | TTh | Th | H | T | O |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

**HOMEWORK**

Calculate. You may use your base 10 kit if you want to.

**1** 39 765 – 38 526 = ☐

**2** 16 595 – 15 674 = ☐

**3** 36 216 – 25 305 = ☐

# Lesson 18: Using the column method to subtract 6-digit numbers

### Mental maths

| | What is … | Answer | | What is … | Answer |
|---|---|---|---|---|---|
| **1** | 17– 8 = | | **6** | 15 – 8 = | |
| **2** | 12 – 3 = | | **7** | 16 – 9 = | |
| **3** | 11 – 9 = | | **8** | 12 – 6 = | |
| **4** | 14 – 6 = | | **9** | 11 – 7 = | |
| **5** | 13 – 7 = | | **10** | 15 – 8 = | |

### Activity 2

Calculate.

**1** 432 987 – 22 876

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**2** 619 387 – 616 346

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**3** 294 638 – 132 342

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**4** 983 647 – 74 203

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**5** 217 524 – 206 953

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**6** 135 598 – 46 243

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## Activity 3

Calculate.

**1** 365 497 – 135 321 = ☐

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**2** 942 634 – 42 215 = ☐

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**3** 793 416 – 126 245 = ☐

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**4** 573 294 – 465 163 = ☐

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**5** 69 234 – 57 138 = ☐

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**6** 295 913 – 6 806 = ☐

| | HTh | TTh | Th | H | T | O |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**HOMEWORK**

Calculate.

**1** 297 634 – 161 243

**2** 124 643 – 121 935

**3** 621 326 – 401 138

# Lesson 19: Subtracting 5- and 6-digit numbers

### Mental maths

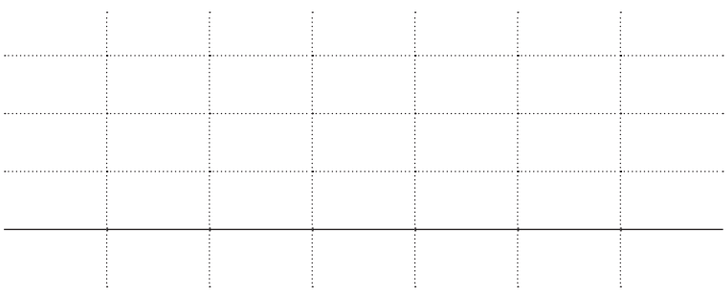
| | What is ... | Answer | | What is ... | Answer |
|---|---|---|---|---|---|
| **1** | 11− 8 = | | **6** | 13 – 9 = | |
| **2** | 11 – 6 = | | **7** | 16 – 8 = | |
| **3** | 18 – 9 = | | **8** | 14 – 5 = | |
| **4** | 15 – 7 = | | **9** | 12 – 7 = | |
| **5** | 14 – 7 = | | **10** | 15 – 6 = | |

### Activity 2

Calculate.

**1** 26 403 – 13 226 = ☐

**2** 736 504 – 225 469 = ☐



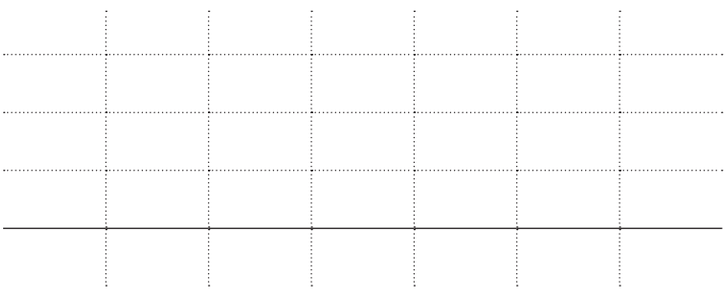
**3** 426 900 – 218 713 = ☐

**4** 987 100 – 64 324 = ☐

## Activity 3

Calculate.

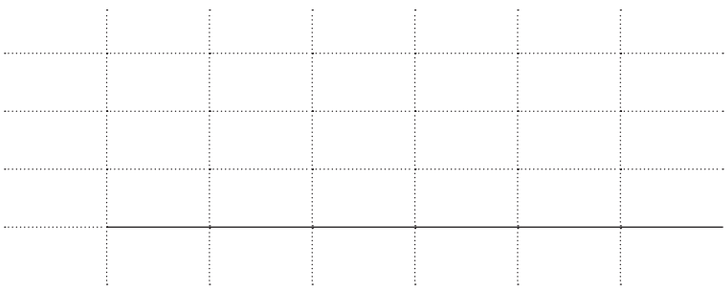
**1** 379 400 – 17 327 = ☐



**2** 643 900 – 74 217 = ☐

**3** 597 200 – 123 614 = ☐

**4** 269 301 – 88 549 = ☐



**HOMEWORK**

Calculate.

**1** 976 400 – 235 274 = ☐

**2** 479 500 – 97 238 = ☐

**3** 346 200 – 115 317 = ☐

# Lesson 20: Using other methods to subtract big numbers

### Mental maths

| | What is ... | Answer | | What is ... | Answer |
|---|---|---|---|---|---|
| **1** | 11− 8 = | | **6** | 13 – 9 = | |
| **2** | 11 – 6 = | | **7** | 16 – 8 = | |
| **3** | 18 – 9 = | | **8** | 14 – 5 = | |
| **4** | 15 – 7 = | | **9** | 12 – 7 = | |
| **5** | 14 – 7 = | | **10** | 15 – 6 = | |

### Activity 2

Calculate.

**1 a** Calculate 478 604 – 126 137. Use the building up method.

**b** Calculate 478 604 – 126 137. Use the building up method.

**c** Check that your answers in **a**. and **b** are the same.
If not, re-check your work to see where you have made a mistake.

**2** **a** Calculate 532 204 – 520 127. Use the building up method.

**b** Calculate 532 204 – 520 127. Use the column method.

**c** Check that your answers in **a**. and **b** are the same.
If not, re-check your work to see where you have made a mistake.

**3** **a** Calculate 684 600 – 573 142. Use the building up method.

**b** Calculate 684 600 – 573 142. Use the column method.

**c** Check that your answers in **a**. and **b** are the same.
If not, re-check your work to see where you have made a mistake.

**Activity 3**

Use any method to calculate:

**1** 296 407 – 75 239

**2** 349 304 – 126 079

**3** 518 305 – 518 166

**HOMEWORK**

You can use any method to do the calculations.

**1** 538 201 – 175 163

**2** 174 302-39 413

**3** 100 604 – 99 463

# Lesson 21: Adding and subtracting big numbers

### Mental maths

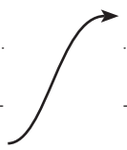
| | What is ... | Answer | | What is ... | Answer |
|---|---|---|---|---|---|
| **1** | 13– 8 = | | **6** | 8 + 6 = | |
| **2** | 9 + 8 = | | **7** | 12 – 4 = | |
| **3** | 11 – 6 = | | **8** | 9 + 7 = | |
| **4** | 8 + 5 = | | **9** | 16 – 7 = | |
| **5** | 14 – 5 = | | **10** | 15 – 8 = | |

### Activity 2

Calculate and then check your answer.

**1**

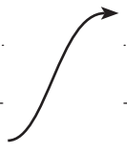
| | | | | | | |
|---|---|---|---|---|---|---|
| | 4 | 1 | 5 | 2 | 9 | 6 |
| – | 3 | 0 | 2 | 6 | 4 | 7 |
| | | | | | | |



| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| + | 3 | 0 | 2 | 6 | 4 | 7 |
| | | | | | | |

**2**

| | | | | | | |
|---|---|---|---|---|---|---|
| | 9 | 2 | 3 | 4 | 0 | 3 |
| – | 1 | 7 | 3 | 2 | 6 | 4 |
| | | | | | | |



| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| + | 1 | 7 | 3 | 2 | 6 | 4 |
| | | | | | | |

**3 a**

| | | | | | | |
|---|---|---|---|---|---|---|
| | 2 | 9 | 3 | 3 | 1 | 6 |
| + | 6 | 2 | 8 | 4 | 3 | 4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| – | 6 | 2 | 8 | 4 | 3 | 4 |

**b** And also use the answer to calculate:

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| – | 2 | 9 | 3 | 3 | 1 | 6 |

**4 a**

| | | | | | | |
|---|---|---|---|---|---|---|
| | 1 | 0 | 3 | 4 | 6 | 0 |
| + | | 9 | 8 | 2 | 1 | 6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| – | | 9 | 8 | 2 | 1 | 6 |

**b** And also use the answer to calculate:

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| – | 1 | 0 | 3 | 4 | 6 | 0 |

## Activity 3

Calculate. Use any method.

**1** 459 678 + 362 354

**2** 369 413 + 26 009

**3** 346 904 – 27 847

**4** 111 111 – 99 999

**5** 123 603 – 12 744

**6** 285 643 + 426 467

**HOMEWORK**

You can use any method to do the calculations.

**1** 738 624 + 171 386

**2** 239 406 –12 107

**3** 981 612 + 9 000

**4** 482 205 – 18 316

# Lesson 22: Consolidation

## CONSOLIDATION ACTIVITY

**1** Write a number sentence before you do each calculation:

Thandi made a placemat. She used 2 407 white beads and 1 378 blue beads.

**a** How many beads did Thandi use altogether?

**b** How many more white beads than blue beads did Thandi use?

**c** How many beads less than 5 000 did Thandi use?

**2** Calculate:

**a** 30 000 + 60 000 = ☐ _____

**b** 40 000 – 10 000 = ☐ _____

**3** Use the column method to calculate:

**a** 34 563 + 23 409 = ☐

**b** 67 416 – 62 519 = ☐

**c** 132 203 – 118 134 = ☐

**4** Use any method to calculate:

**a** 829 563 – 337 471 = ☐

**b** 243 807 – 32 451 = ☐

**5** Calculate, and then add to check your answer:

**a** 234 567 – 132 288 = ☐

**b** 169 432 – 16 943 = ☐

# Lesson 23: Assignment

**PAGE FOR WRITING CORRECTIONS, DOING PRACTICE EXAMPLES AND WRITING NOTES**

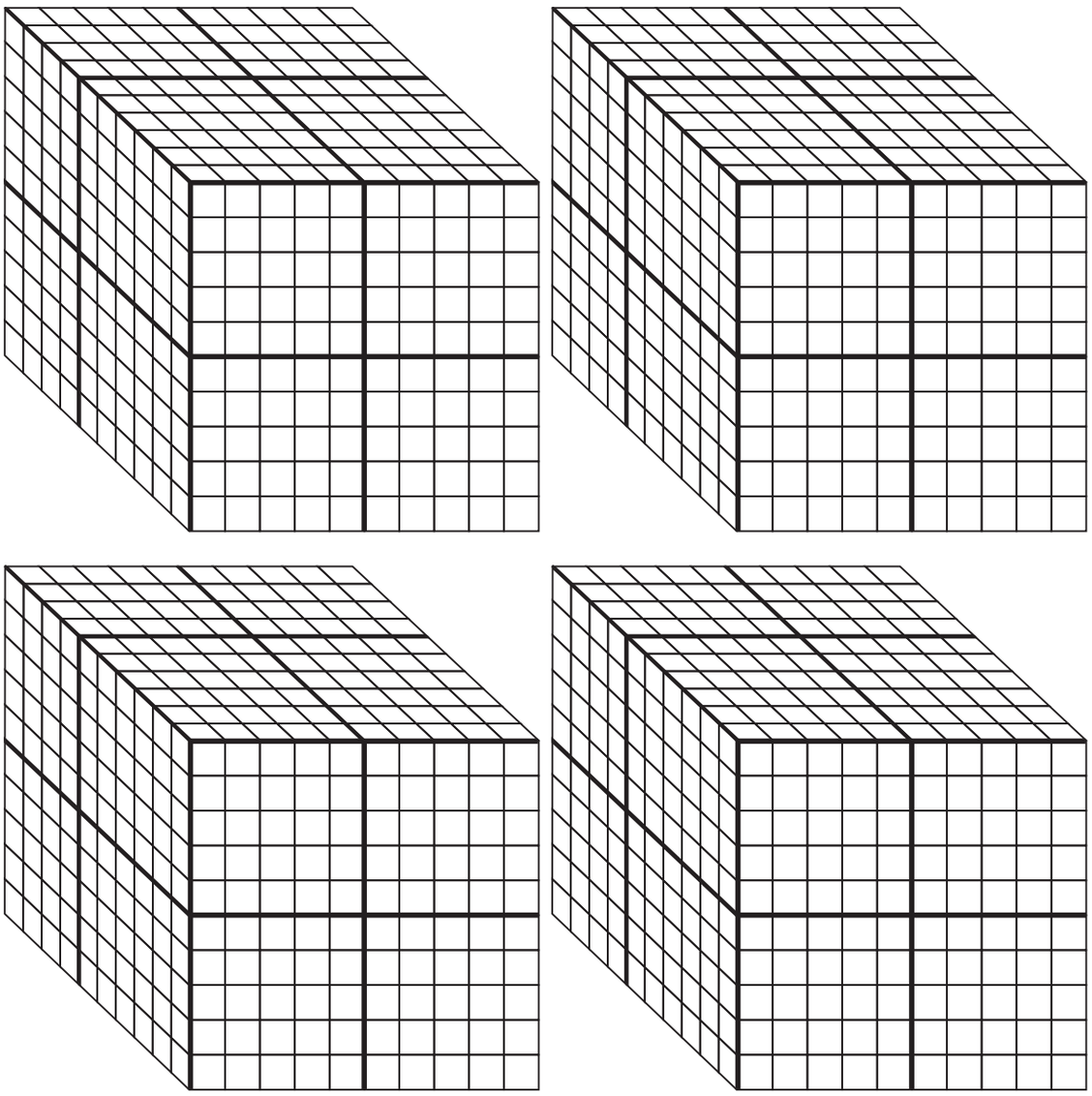
# RESOURCES

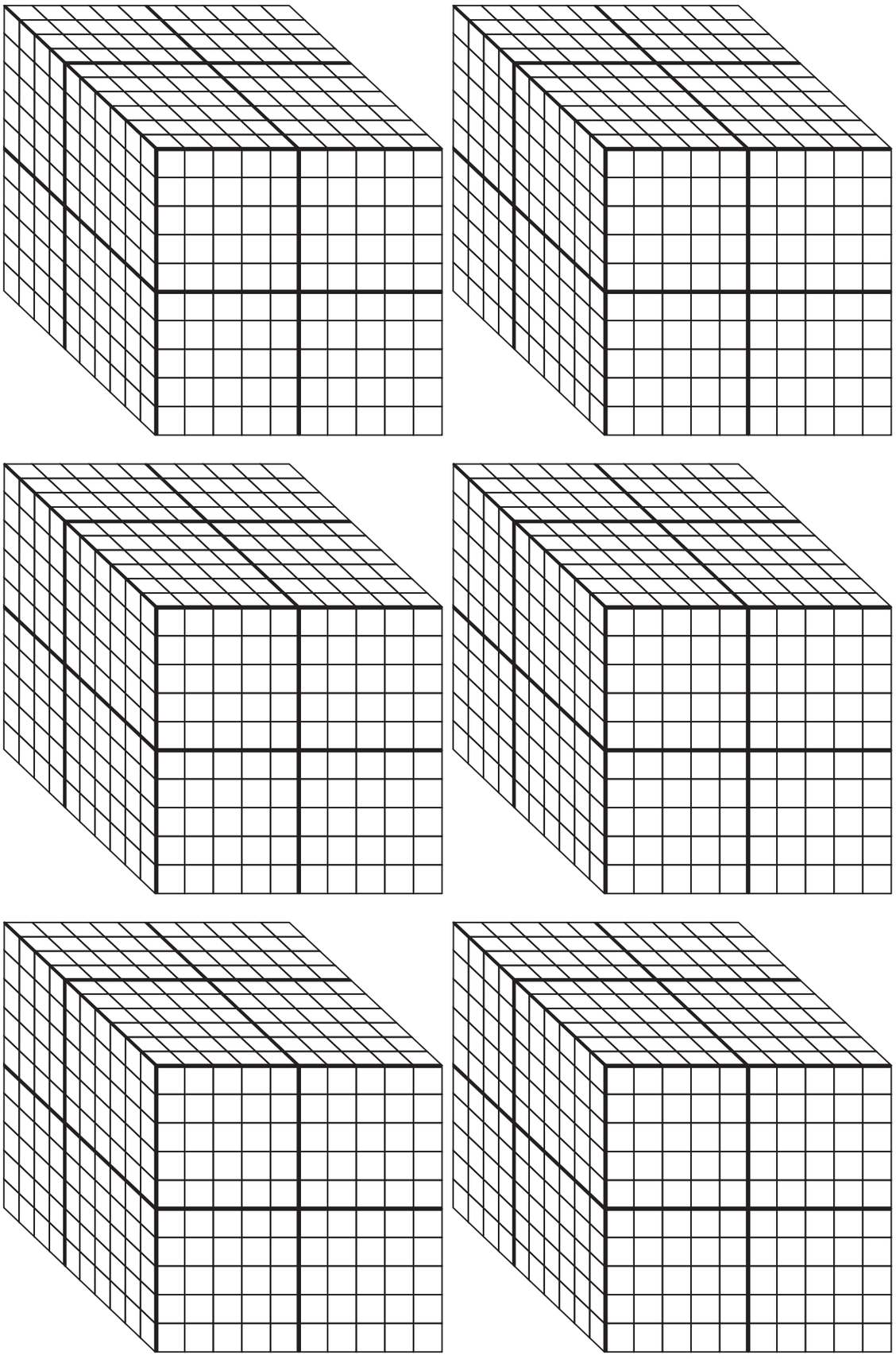
## Base 10 Kit (up to 1 000)

### Instructions

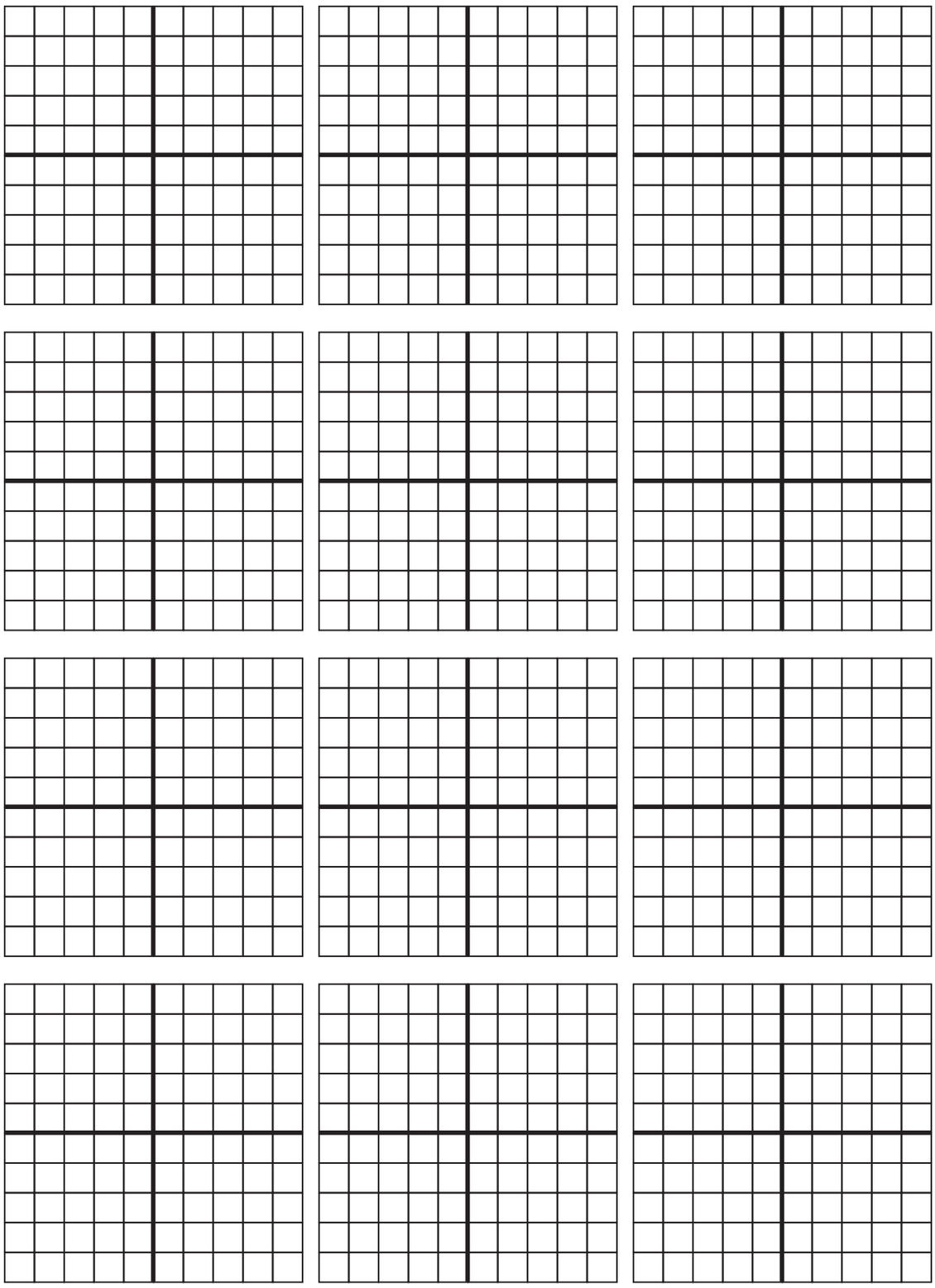
Cut out the ten thousands, ten hundreds, ten tens and ten hundreds.  Store them in an envelope.

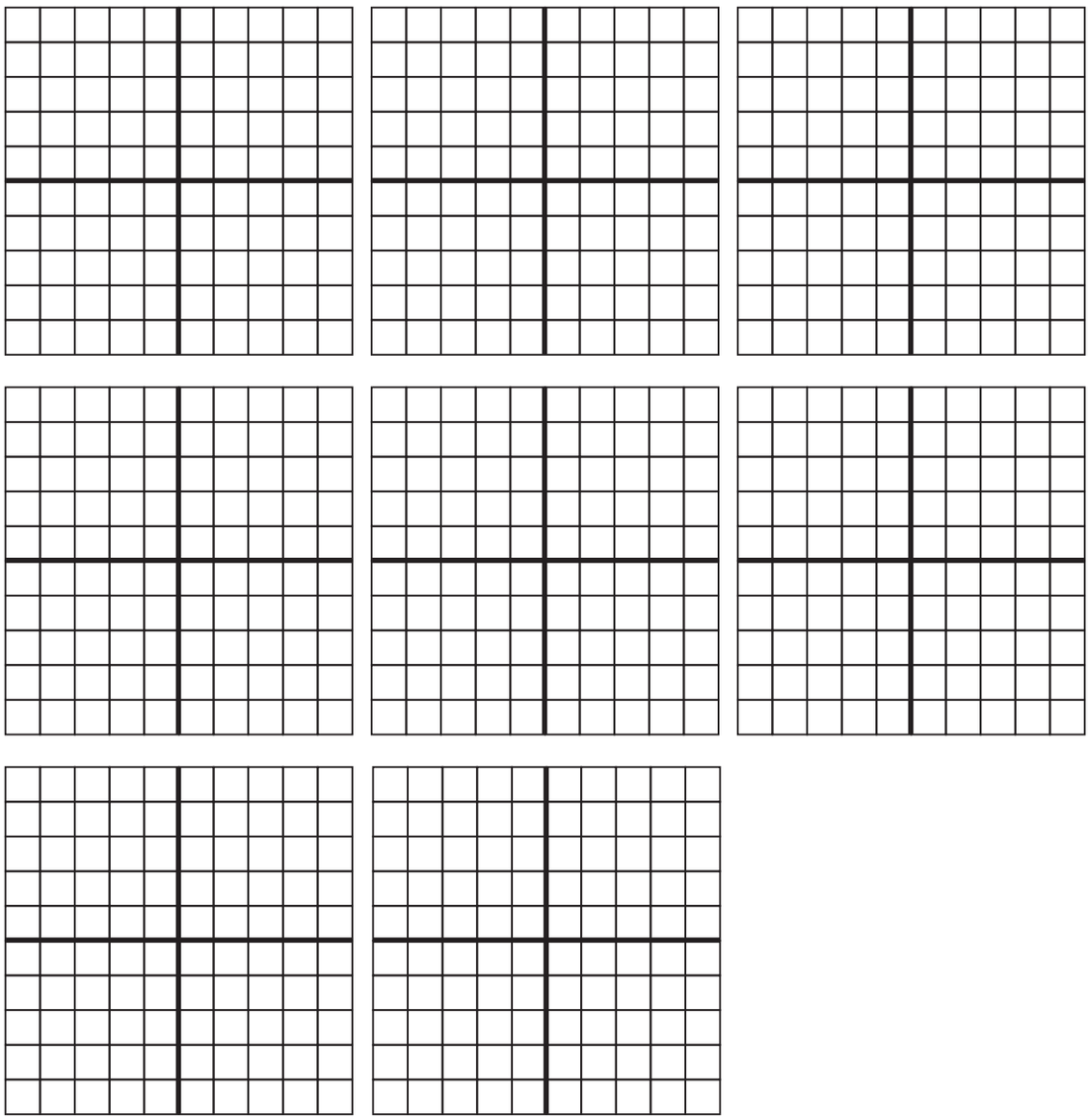
### Thousands



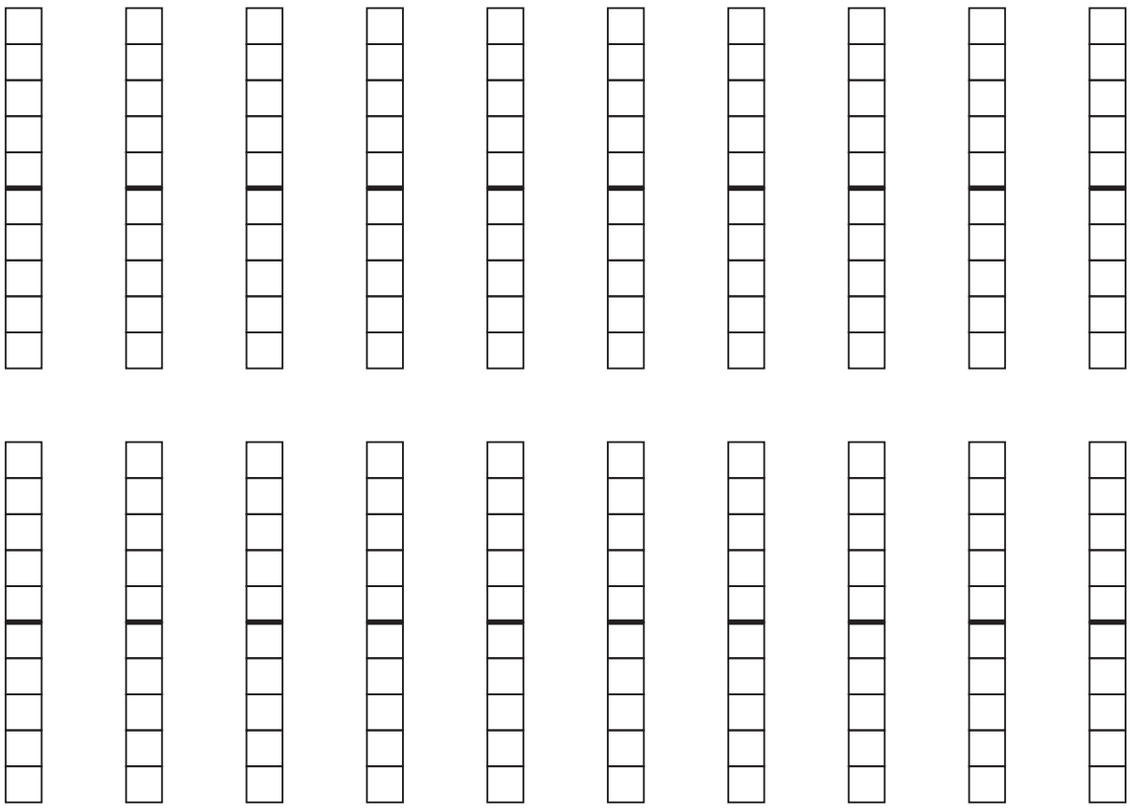


## Hundreds

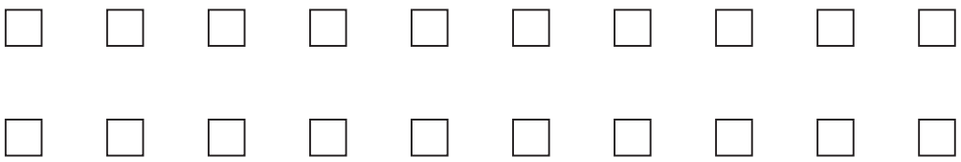




**Tens**



**Ones**



# Individual Place Value Cards

**Instructions**

Cut out each strip.  You should end up with 9 million strips, 9 hundred thousand strips, 9 ten thousand strips, 9 thousand strips, 9 hundred strips, 9 tens strips and 10 ones strips

**Millions Strips from 1 000 000 to 9 000 000**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | 0 | 0 | 0 | 0 | 0 | 0 |

**Hundred thousands strips from 100 000 to 900 000**

| | | | | | |
|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 |

| | | | | | |
|---|---|---|---|---|---|
| 9 | 0 | 0 | 0 | 0 | 0 |

**Ten thousands strips from 10 000 to 90 000**

| | | | | |
|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 |

**Thousands strips from 1 000 to 9 000**

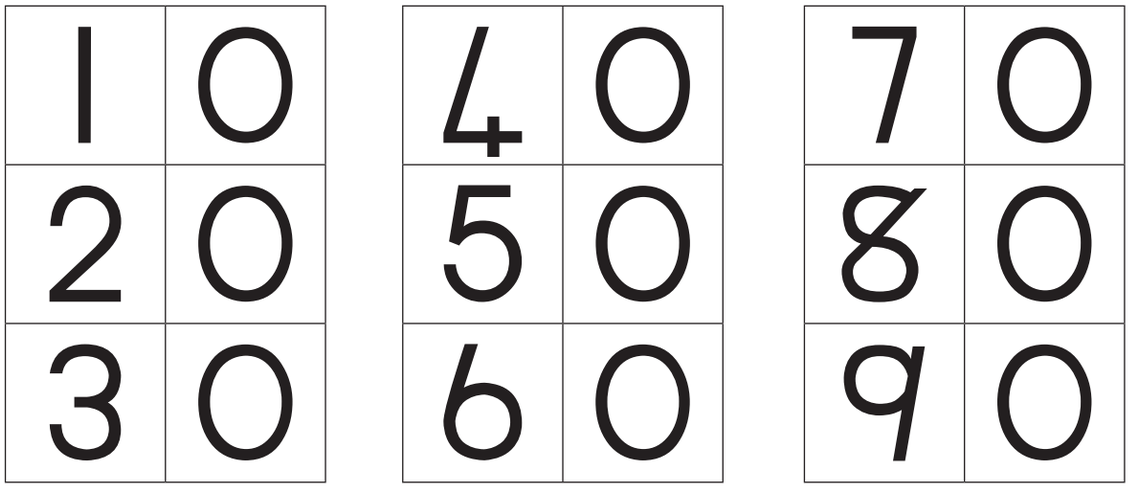
| | | | |
|---|---|---|---|
| 1 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 |

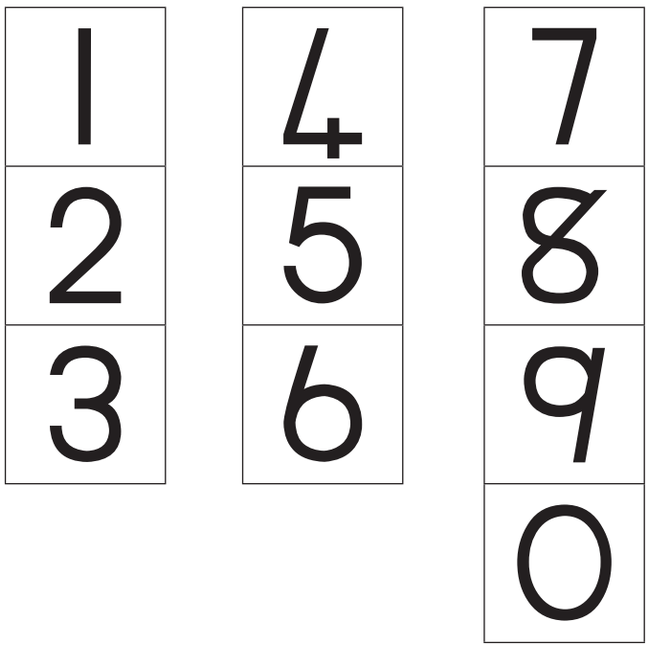
**Hundreds strips from 100 to 900**

| | | |
|---|---|---|
| 100 | | |
| 200 | | |
| 300 | | |
| 400 | | |
| 500 | | |

| | | |
|---|---|---|
| 600 | | |
| 700 | | |
| 800 | | |
| 900 | | |

**Tens strips from 10 to 90**




**Ones strips from 0 to 9**