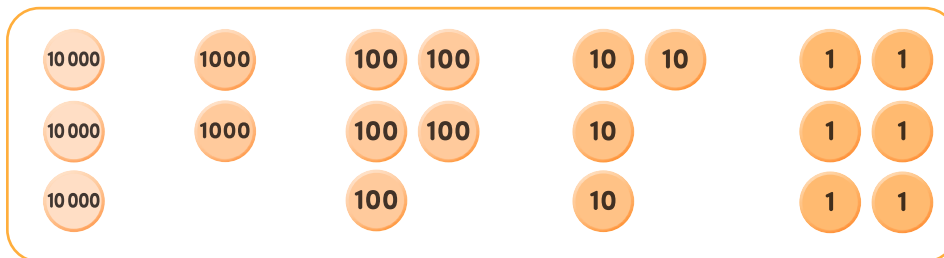


Chapter 1 Numbers to 10 Million

Practice 1 Recall: Numbers to 100 000

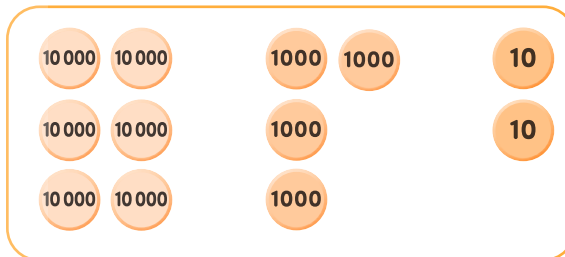
- 1 Write the numbers represented by the number discs.

(a)



The number is .

(b)



The number is .

- 2 Write in numerals.

(a) Twenty-four thousand, five hundred and eighteen

(b) Ninety-nine thousand and five

(c) One hundred thousand

3 Write the numbers in words.

(a) 36 475

Thirty-six thousand, four hundred and seventy-five

(b) 55 701

Fifty-five thousand, seven hundred and one

4 In 73 189,

(a) the value of the digit 3 is 3 thousands / 3000 .

(b) the digit 1 is in the hundreds place.

(c) the digit 7 stands for 70 000 / 7 ten thousands .

(d) the digit 8 is in the tens place.

5 In 82 064,

(a) the digit 2 stands for 2 thousands / 2000 .

(b) the digit 6 stands for 6 tens / 60 .

(c) the digit 8 is in the ten thousands place.

(d) the value of the digit 0 is 0 .

6 Fill in the missing numbers.

(a) $65\,931 = 60\,000 + 5000 + 900 + 30 + 1$

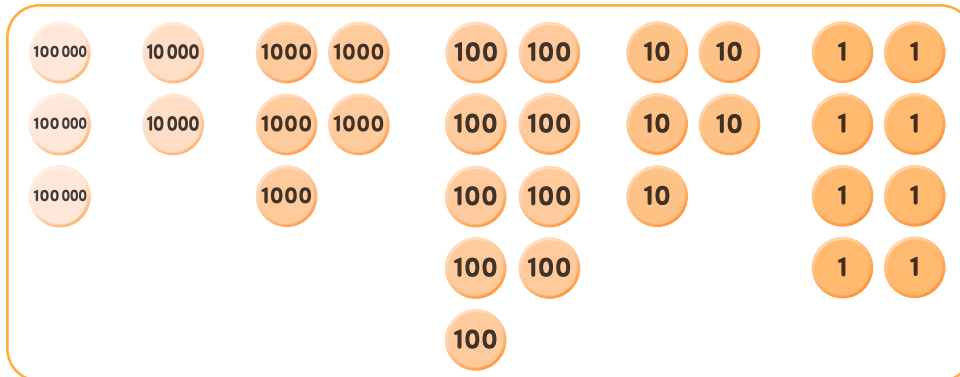
(b) $94\,332 = 90\,000 + 4000 + 300 + 30 + 2$

(c) $28\,641 = 28\,000 + 641$

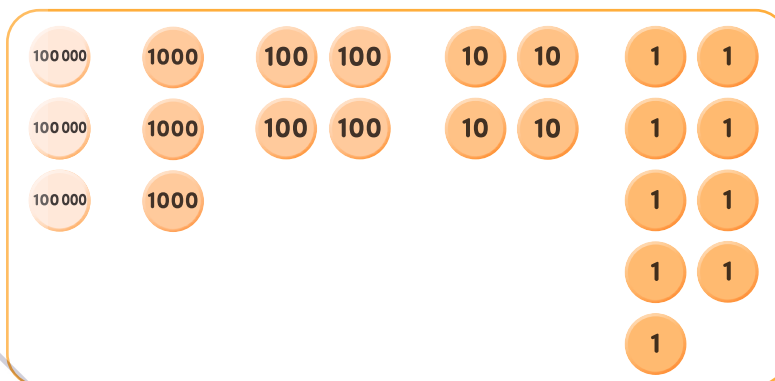
Practice 2 Numbers to 1 Million

- 1 Write the numbers represented by the number discs in numerals and in words.

(a)

In numerals: In words: Three hundred and twenty-five thousand, nine hundred and fifty-eight

(b)

In numerals: In words: Three hundred and three thousand, four hundred and forty-nine

2 Write in numerals.

(a) Six hundred and fifty-five thousand,
seven hundred and thirty-eight

655 738

(b) Two hundred and ninety-three thousand,
nine hundred and forty-nine

293 949

(c) One hundred and thirteen thousand and twenty-six

113 026

(d) Eight hundred thousand and eight

800 008

3 Write the numbers in words.

(a) 205 790

Two hundred and five thousand, seven hundred and ninety

(b) 104 588

One hundred and four thousand, five hundred and eighty-eight

(c) 101 202

One hundred and one thousand, two hundred and two

4 Fill in the missing numbers.

(a) $967\,245 = 967\,000 + \boxed{245}$

(b) $703\,152 = \boxed{703\,000} + 152$

(c) $800\,209 = 800\,000 + \boxed{209}$

(d) $\boxed{470\,500} = 470\,000 + 500$

(e) $\boxed{634\,000} + 832 = 634\,832$

(f) $530\,002 = \boxed{530\,000} + 2$

5 Write the numbers formed.

Example

4 0 0 0 0 0

6 2 5

400 625

(a)

5 0 0 0 0 0

4 5 0

500 450

(b)

6 0 0 0 0 0

9 0

600 090

- 6 The table below shows the populations of some cities in Australia in 2024.

Cities	Population
Darwin	138 567
Bunbury	82 626
Mackay	89 183
Geelong	308 915
Rockhampton	82 876

- (a) Which city has the greatest population?

Geelong

- (b) Which city has the smallest population?

Bunbury

- (c) Which cities have more than 100 000 people?

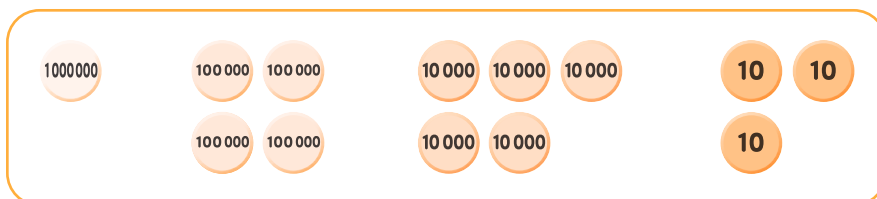
Darwin and Geelong



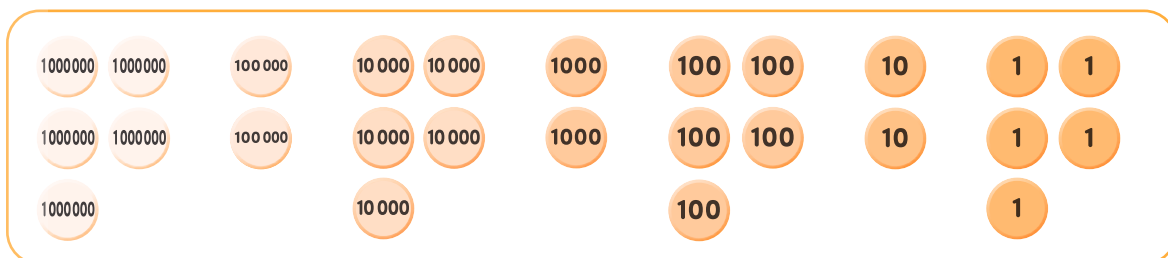
Practice 3 Numbers to 10 Million

- 1 Write the numbers represented by the number discs in numerals and in words.

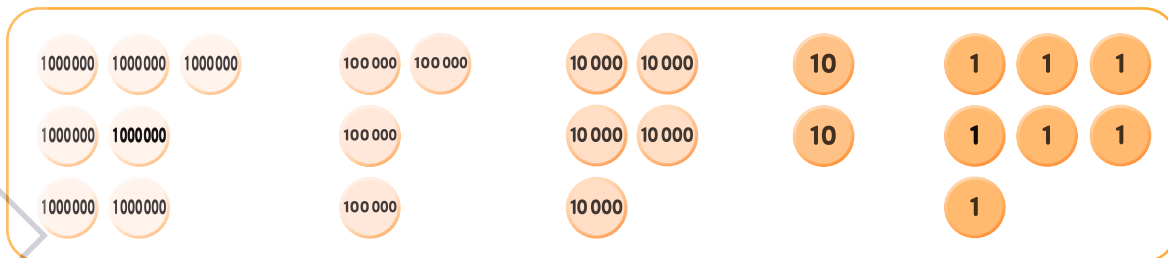
(a)

In numerals: **1 450 030**In words: **One million, four hundred and fifty thousand and thirty**

(b)

In numerals: **5 252 525**In words: **Five million, two hundred and fifty-two thousand,
five hundred and twenty-five**

(c)

In numerals: **7 450 027**In words: **Seven million, four hundred and fifty thousand and
twenty-seven**

2 Write in numerals.

(a) Four million and forty-four

4 000 044

(b) Eight million, six hundred and twenty-five thousand and eleven

8 625 011

(c) Seven million, two hundred and seven thousand and thirty

7 207 030

(d) Nine million, eight hundred and twenty-one thousand, six hundred and thirty-seven

9 821 637

(e) Ten million

10 000 000

3 Write the numbers in words.

(a) 5 824 821

Five million, eight hundred and twenty-four thousand, eight hundred
and twenty-one

(b) 3 088 859

Three million, eighty-eight thousand, eight hundred and fifty-nine

(c) 1 280 942

One million, two hundred and eighty thousand, nine hundred and
forty-two

4 Fill in the missing numbers.

(a) $1789\,302 = 1\,000\,000 + 789\,000 + 302$

(b) $4\,256\,000 = 4\,000\,000 + 256\,000$

(c) $5\,390\,000 = 5\,000\,000 + 390\,000$

(d) $7\,000\,048 = 7\,000\,000 + 48$

(e) $8\,901\,006 = 8\,000\,000 + 901\,000 + 6$

(f) $9\,000\,000 + 231\,000 + 86 = 9\,231\,086$

5 Write the numbers formed.

(a)

4	0	0	0	0	0	0	2	5	0	0	0	6	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---

4 250 067

(b)

8	0	0	0	0	0	0	6	2	0	0	0	5
---	---	---	---	---	---	---	---	---	---	---	---	---

8 062 005

- 6 Use the numeral cards to make numbers up to 10 million.
You may only use each numeral card once.

(a) Form the greatest 6-digit number that is closest to 800 000.



The number is .

(b) Form the greatest 6-digit number that is closest to 1 million.



The number is .

(c) Form the greatest 7-digit number that is closest to 5 million.



The number is .

Performance Task

Activity: Using a calculator to subtract numbers.

Example

Think of a 6-digit number and key it in your calculator. All the digits must be different and do not use 0 in the 6-digit number.

For example, the 6-digit number is 123 456.

(a) Subtract to get 6. (*Hint:* Look at the digit in the ones place.)

$$123\,45\mathbf{6} - 123\,450 = \mathbf{6}$$

(b) Subtract to get 20 000. (*Hint:* Look at the digit in the ten thousands place.)

$$\mathbf{1}23\,456 - 103\,456 = \mathbf{20\,000}$$

Now, think of your own 6-digit number and use your calculator to subtract numbers as illustrated in the example.

(a) My 6-digit number is .

I want to get 700 as my answer.

The subtraction equation is

$$\text{} - \text{} = \text{}.$$

(b) My 6-digit number is .

I want to get 70 000 as my answer.

The subtraction equation is

$$\text{} - \text{} = \text{}.$$

Problem Solving

Daniel draws lines and dots to form a pattern of figures as shown below.

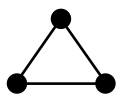


Figure 1

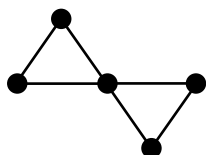


Figure 2

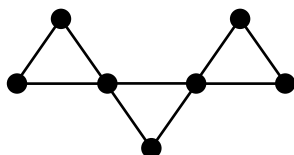


Figure 3

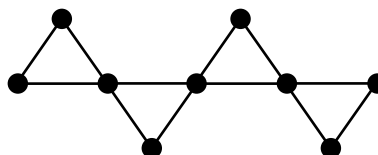


Figure 4

- (a) How many dots does Figure 8 have?
 (b) Which figure will have 21 dots? How many lines does this figure have?

Figure	Number of dots	Number of lines
1	3	$1 \times 3 = 3$ $+3$
2	$3 + 2 = 5$	$2 \times 3 = 6$ $+3$
3	$3 + 2 + 2 = 7$	$3 \times 3 = 9$ $+3$
4	$3 + 2 + 2 + 2 = 9$	$4 \times 3 = 12$
5	$3 + 2 + 2 + 2 + 2 = 11$	$5 \times 3 = 15$
6	$3 + 2 + 2 + 2 + 2 + 2 = 13$	$6 \times 3 = 18$
7	$3 + 2 + 2 + 2 + 2 + 2 + 2 = 15$	$7 \times 3 = 21$
8	$3 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 17$	$8 \times 3 = 24$

(a) Figure 8 $\rightarrow$ 17 dots

Figure 8 has 17 dots.

(b) $17 + 2 + 2 = 21$ Or $21 \div 2 = 10 \text{ R } 1$

Figure 10 $\rightarrow$ 21 dots

Multiply the figure number by 3 to get the number of lines.

$$10 \times 3 = 30$$

There are 30 lines.

Figure 10 has 21 dots and 30 lines.