The Singapore Syllabus

ALIGNED TO THE LATEST 2027 EDITION MOE SYLLABUS

Primary 3 Mathematics

ASSESSMENT BOOK



- **Notes** with worked examples
- **Practice questions** for every chapter
- **Answers** with full working
- **A full practice exam** with mark scheme

11 chapters **360** pages **286** questions

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Answers and Mark Schemes

Chapters 1 to 11 and the examination 329

CHAPTER 1

Numbers to 10 000

Part 1: Notes and Worked Examples



In the notes

20 ideas. Read each idea and its worked example, then try the Try This question before you check its answer. The practice questions start on page 19.

- Counting in Hundreds
- Counting in Thousands
- The Place Value Chart
- Place-Value Discs
- The Value of a Digit
- Writing a Number in Expanded Form
- Renaming Place Values
- Writing Numbers in Words
- Writing Words as Numerals
- Comparing Numbers
- Ordering Numbers
- More Than and Less Than
- Forming Numbers with Digit Cards
- Number Patterns
- Word Problems: More Than
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- Who Am I? Number Riddles
- Common Mistakes
- Summary
- Formulas to Remember

Name: _____ Class: _____ Date: _____

PRIMARY 3 · MATHEMATICS · NUMBERS TO 10 000

Numbers to 10 000

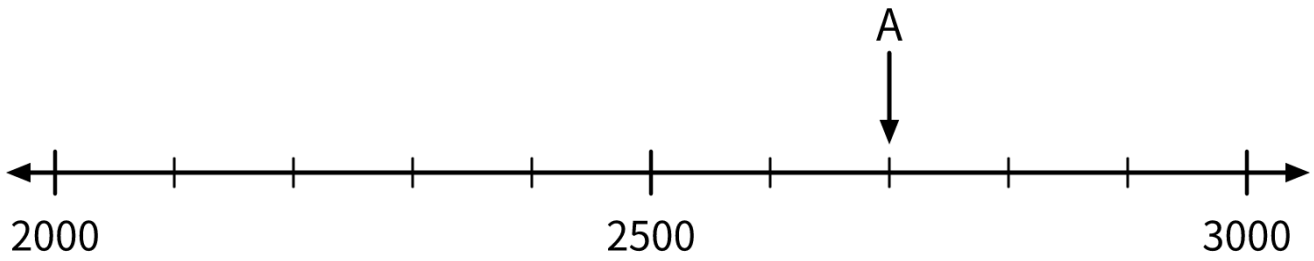
Theory and worked examples

Counting in Hundreds

When we count in hundreds, the hundreds digit goes up by 1 each time. After 9 hundreds comes the next thousand: 2800, 2900, 3000, 3100. On a number line, count the steps between the labelled marks to find what each small mark stands for.

KEY IDEA

Counting on in hundreds adds 100 each time; counting back takes away 100 each time.



WORKED EXAMPLE

What number does the arrow A show on the number line above?

1. From 2000 to 2500 there are 5 equal steps, so each step is 100.
2. Count on in hundreds from 2500: 2600, 2700.
3. A is 2 steps after 2500.

A shows 2700.

TRY THIS

Count back in hundreds: 5300, 5200, 5100, ___, ___

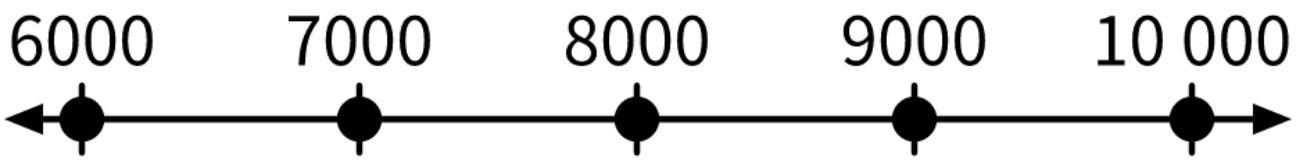
Answer: 5000, 4900

Counting in Thousands

When we count in thousands, the thousands digit goes up by 1 each time. 10 thousands make ten thousand, which we write as 10 000. In this chapter we work with numbers up to 10 000.

KEY IDEA

10 hundreds make 1 thousand. 10 thousands make 10 000.



WORKED EXAMPLE

Count on in thousands from 3450. Write the next three numbers.

1. Only the thousands digit changes. The 450 stays the same.
2. 3450 → 4450 → 5450 → 6450

4450, 5450, 6450

TRY THIS

Count back in thousands: 9208, 8208, ___, ___

Answer: 7208, 6208

The Place Value Chart

A 4-digit number has four places: thousands, hundreds, tens and ones. Each digit sits in one place. The chart below shows 3507: 3 thousands, 5 hundreds, 0 tens and 7 ones.

WORDS TO KNOW

digit	one of the symbols 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
place	where a digit sits: thousands, hundreds, tens or ones
value	what a digit is worth in its place

Thousands	Hundreds	Tens	Ones
3	5	0	7

WORKED EXAMPLE

In 3507, which digit is in the tens place?

1. Read the places from the right: ones, tens, hundreds, thousands.
2. The ones digit is 7. The tens digit is 0.

The digit 0 is in the tens place.

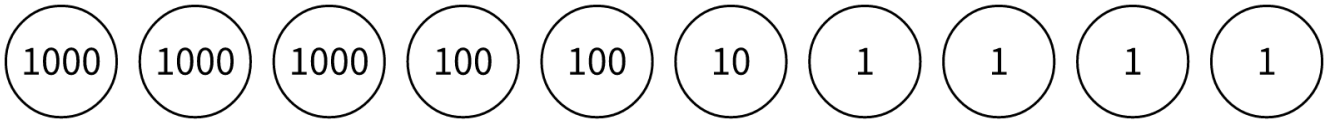
TRY THIS

In 8146, which digit is in the hundreds place?

Answer: 1

Place-Value Discs

We can show a number with place-value discs. A 1000 disc stands for 1 thousand, a 100 disc for 1 hundred, a 10 disc for 1 ten and a 1 disc for 1 one. Count each kind of disc, then put the digits in their places.



WORKED EXAMPLE

What number do the discs above show?

1. 3 discs of 1000 → 3 thousands = 3000
2. 2 discs of 100 → 2 hundreds = 200
3. 1 disc of 10 → 1 ten = 10
4. 4 discs of 1 → 4 ones = 4
5. 3000 + 200 + 10 + 4 = 3214

3214

TRY THIS

Ahmad has 5 discs of 1000, 6 discs of 10 and 2 discs of 1. What number does he show?

Answer: 5062 (there are 0 hundreds)

The Value of a Digit

The same digit can have different values. It depends on its place. In 6853, the digit 8 is in the hundreds place, so its value is 800.

Digit in 6853	Place	Value
6	thousands	6000
8	hundreds	800
5	tens	50
3	ones	3

WORKED EXAMPLE

What is the value of the digit 7 in 4729?

1. Find the place of 7: 4 is thousands, 7 is hundreds.
2. 7 hundreds = 700

700

TRY THIS

What is the value of the digit 2 in 2915?

Answer: 2000

Name: _____ Class: _____ Date: _____

PRIMARY 3 · MATHEMATICS · NUMBERS TO 10 000

Numbers to 10 000

INSTRUCTIONS

- 22 questions, 41 marks in total.
- Answer all questions in the spaces provided.
- Show your working clearly. Marks are given for correct working.

Section A: Multiple Choice

1 In 8516, the digit 5 is in the _____ place. ( ) [1]

(A) ones (B) tens (C) hundreds (D) thousands

2 Which of the following is three thousand and sixty in numerals? ( ) [1]

(A) 3006 (B) 3060 (C) 3600 (D) 3660

3 What is the value of the digit 4 in 4927? ( ) [1]

(A) 4 (B) 40 (C) 400 (D) 4000

4 6 thousands 9 tens is the same as _____. ( ) [1]

(A) 6090 (B) 6900 (C) 690 (D) 6009

5 Which number is 100 more than 7950? ( ) [1]

(A) 7960 (B) 7850 (C) 8050 (D) 8950

6 Which of the following is the greatest even number? ( ) [1]

(A) 8946 (B) 8964 (C) 8971 (D) 8697

7 What is the value of 3 thousands, 15 hundreds and 4 tens? ( ) [2]

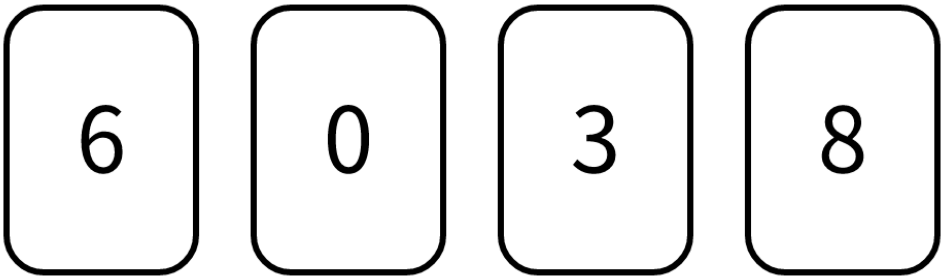
(A) 3154 (B) 4540 (C) 4504 (D) 3540

8 What is the missing number in the number pattern below? ( ) [2]



(A) 6415 (B) 6515 (C) 6315 (D) 6215

9 Use all the digit cards below once each. Which is the smallest 4-digit odd number that can be formed? ( ) [2]



(A) 3068 (B) 6038 (C) 8063 (D) 6083

Section B: Short Answer

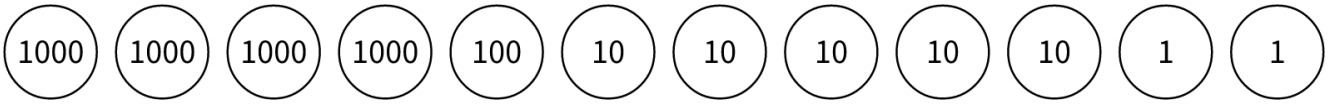
10 Write 7084 in words.

Ans: _____ [1]

11 Write five thousand, six hundred and nine in numerals.

Ans: _____ [1]

12 What number is shown by the place-value discs below?



Ans: _____ [1]

13 Fill in the blank.

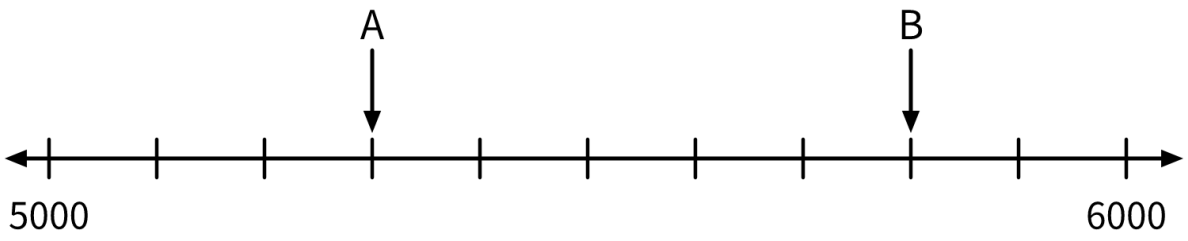
9035 = 9000 + _____ + 5 [1]

14 Arrange the following numbers in order. Begin with the greatest.

4073, 4307, 4370, 3740

Ans: _____ [2]

15 Look at the number line below. How much greater is the number at B than the number at A?



Ans: _____ [2]

Chapter 1: Numbers to 10 000 (Answer Key)

22 questions, 41 marks. M: method mark, A: answer mark, B: mark for the answer alone.

1. C. hundreds [1]

2. B. 3060 [1]

3. D. 4000 [1]

4. A. 6090 [1]

5. C. 8050 [1]

6. B. 8964 [1]

7. B. 4540 [2]

M1 3000 + 1500 + 40
A1 4540

8. C. 6315 [2]

M1 rule: subtract 300 each time (7215 → 6915 is 3 hundreds less)
A1 6615 − 300 = 6315

9. D. 6083 [2]

M1 the only odd digit is 3, so the number ends in 3
A1 6083

10. seven thousand and eighty-four [1]

11. 5609 [1]

12. 4 thousands 1 hundred 5 tens 2 ones = 4000 + 100 + 50 + 2 = 4152 [1]

13. 9035 = 9000 + 30 + 5, so the missing number is 30. [1]

14. All have 4 thousands except 3740, so 3740 is the smallest. Of 4073, 4307 and 4370: 4073 has 0 hundreds, so it is the smallest of the three; 4370 has 7 tens and 4307 has 0 tens. Order: 4370, 4307, 4073, 3740. [2]

B2 4370, 4307, 4073, 3740 (B1 if only one pair is out of order)

15. There are 10 equal steps from 5000 to 6000, so each step is 100. A = 5300 and B = 5800. 5800 − 5300 = 500. The number at B is 500 greater. [2]

M1 A = 5300 and B = 5800
A1 500

16. 1000 more than 6750 is 7750. 100 less than 7750 is 7650. The answer is 7650. [2]

M1 6750 + 1000 = 7750
A1 7750 − 100 = 7650