MathSmart Guide

Contents

For Students

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Chapter 1

Whole Numbers to 100 000

Topics to be covered in this chapter:

1.1 Writing Numbers to 100 000

e.g. 13 438 in words is thirteen thousand four hundred thirty-eight.

1.2 Comparing, Ordering, and Rounding Numbers

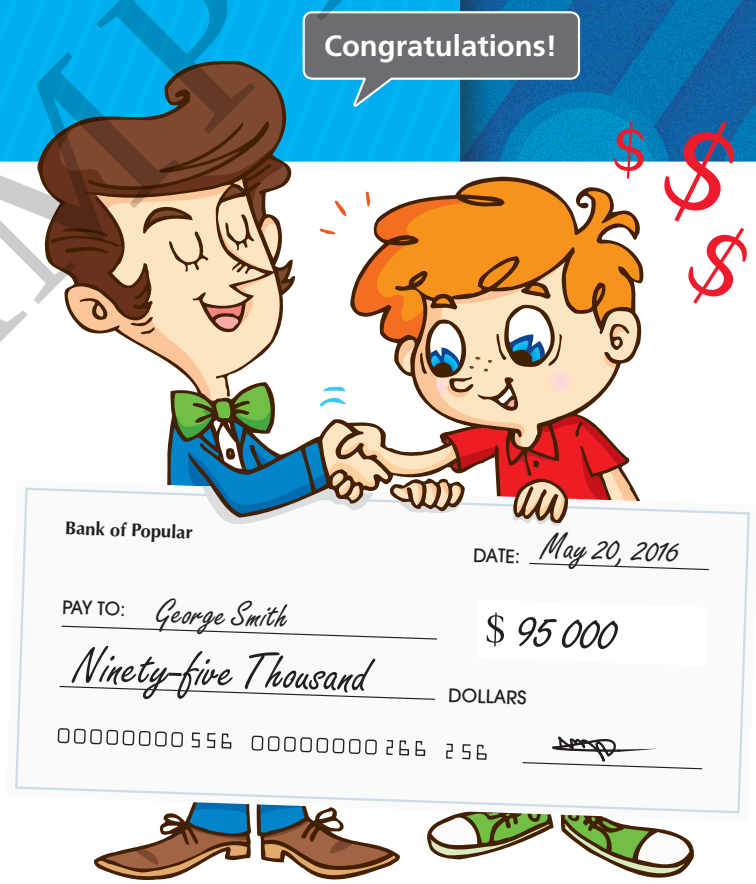
e.g. 12 020 < 27 182 < 31 415

1.3 Multiplying Two-digit Numbers

e.g. What is the product of 25 and 26?

1.4 Dividing Three-digit Numbers

e.g. 550 ÷ 9 = 61R1



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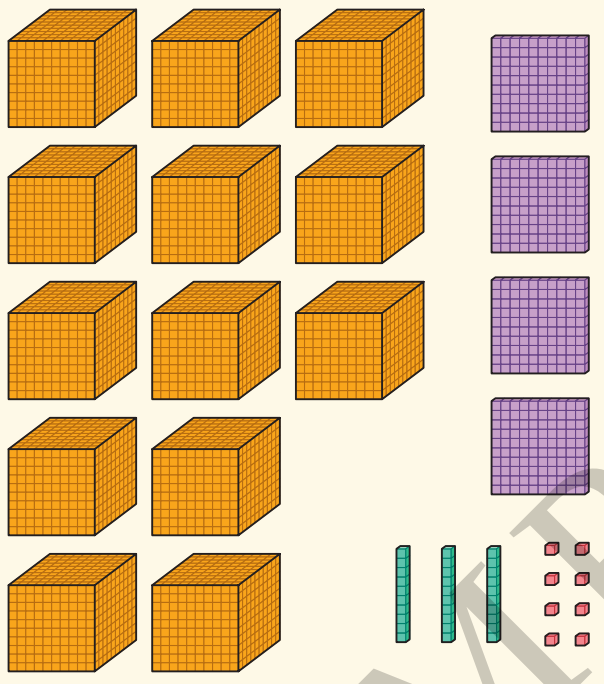
1.1 Writing Numbers to 100 000

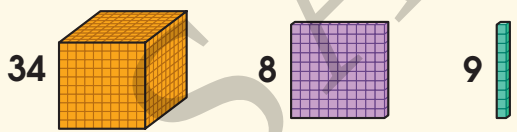
Write the numbers that the base-ten blocks represent in the place value chart. Then write the numbers in words.

1.

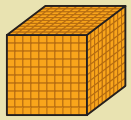
A



B



Base-ten Blocks

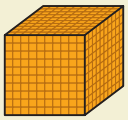

= 1000


= 100


= 10

= 1

e.g. 42




8

5

Thousands					
H	T	O	H	T	O
	4	2	0	8	5

forty-two thousand eighty-five

A

Thousands					
H	T	O	H	T	O

In words: _____

_____

B

Thousands					
H	T	O	H	T	O

In words: _____

_____

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Write the value of each coloured digit.

2. 34 **2**91 _____

3. **6**0 178 _____

4. 3**7** 849 _____

5. 64 70**5** _____

6. 12 **3**60 _____

7. 84 2**7**4 _____

8. **1**7 085 _____

9. **7**0 253 _____

Thousands					
Hundreds	Tens	Ones	Hundreds	Tens	Ones
	5	2	3	0	6

The 2 in the thousands place means 2000.

Write the numbers in expanded form.

10. 25 497 = _____ + _____ + _____ + _____ + _____

means 20 000
means 5 000
means 400
means 90
means 7

Expanded Form

It is a way to write numbers by showing the value of each digit.

e.g. 285 = 200 + 80 + 5

11. 36 248 = 30 000 + _____

12. 40 613 = _____

13. 17 805 = _____

14. 98 067 = _____

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Write the numbers in words and in expanded form.

15. In standard form: **52 863**

    In words: _____

    In expanded form: _____

16. In standard form: **80 691**

    In words: _____

    In expanded form: _____

Write the numbers.

17. a 5-digit number that has a 5 in its ten thousands place _____

18. a 5-digit number that has a 0 in its thousands place _____

19. a number that is five hundred less than 64 957 _____

20. a number that is sixty thousand more than 16 078 _____

21. This is a cheque to ABC Company.

Popular Bank

DATE: May 20, 2016

PAY TO: ABC Company $ _____

Sixty-five thousand four hundred eight DOLLARS

Smith

⑆000000556⑆ 000000266 256

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Solve the problems. Show your work.

22. Read the news article. Write the population of each city.

Sunday News

The population of Georgeville is fifty-two thousand seven hundred four. The population of Pine is twenty thousand smaller than the city of Georgeville, but larger than the city of Oakland by five thousand.

The City of Georgeville

Population _____

The City of Pine

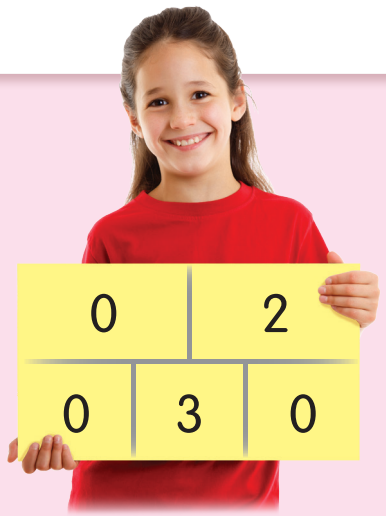
Population _____

The City of Oakland

Population _____

Application

㉓ *Look at the 5 digits that Julia wrote on the board. Using each digit only once, form as many 5-digit numbers as possible. Describe the strategy you used to find all the possible numbers.*



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