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Place value

#### Remember

**Place value** — the ten digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are used to build up large numbers.

- When you multiply numbers by 10 or 100 all the digits move 1 or 2 places to the left.
- When you divide numbers by 10 or 100 all the digits move 1 or 2 places to the right.

Example: 356 900 ÷ 100

 $356\ 900 \div 100 = 3569$  $3569 \times 10 = 356\ 900$  hundred thousands

HTh TTh Th H T U

8 3 9 8 4 3

Read as eight hundred
and thirty nine thousand, eight

Vocabulary

digit, ten thousand, hundred thousand, operation

Hint: Use a

to help you.

place-value chart

1 What is the value of the digit 9 in the number 498 316? Circle the correct answer.

nine million

nine hundred

nine thousand

hundred and forty three.

ninety thousand

nine hundred thousand

**2** Here are some number cards.

1





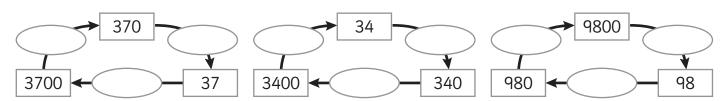


You can use each card once, to make a number like this.



- (a) What is the biggest number you can make with the five cards?
- **(b)** What is the smallest number you can make with the five cards?
- (c) Write your answers in words.

**3** Identify the operations missing from the loops



**Unit 1A:** Number and problem solving CPM framework 5Nn2, 5Nn3, 5Nn5; Teacher's Resource 1.1

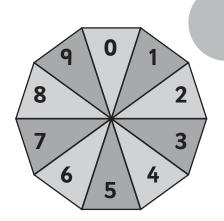


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## 4 Place value challenge - a game for two players

Use the spinner and a game board.

Take turns to spin the spinner and write your number in any cell on the game board. The winner is the player with the highest number when all the boxes have been filled.

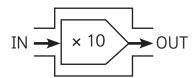


Game 1	HTh	TTh	Th	Н	Т	U
Player 1						
Player 2						

Game 2	HTh	TTh	Th	Н	Т	U
Player 1						
Player 2						

**Hint:** Think carefully before placing each number. Remember, you can use any cell. Practise saying the numbers.

## **5** Complete the table for each function machine.

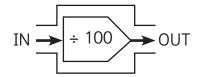


IN	3489		45 678		18 700	
OUT		8640		379020		18 700

If you know the 'out' number you need to divide by 10 to find the 'in' number, for example:

$$8640 \div 10 = 864$$

Th	Н	Т	U
8 、	6 、	4 、	0
	*8	<b>*</b> 6	4



IN	54800		45 100		18700	
OUT		8640		9020		1870

If you know the 'out' number you need to multiply by 100 to find the 'in' number, for example:

$$8640 \times 100 = 864000$$

(	HTh	TTh	Th	Н	Т	U
			8	_6_	_4_	0
	_8 <b>*</b>	6	4	0	0	0

**Unit 1A:** Number and problem solving CPM framework 5Nn2, 5Nn3, 5Nn5; Teacher's Resource 1.1



**More Information** 

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# Ordering and rounding

#### Remember

### When comparing numbers:

< means 'is less than' for example 515 005 < 515 505 > means 'is greater than', for example 515 505 > 515 005

#### When rounding numbers:

to the nearest 10 look at the units digit so 2364 rounds down to 2360

to the nearest 100 look at the tens digit so 2364 rounds up to 2400 to the nearest 1000 look at the hundreds digit so 2364 rounds down to 2000

1	Write the correct sign, < or >, between the numbers in each pair. 4567 4657 5454 5054 34686 35860 7878 7808 65646 65628 654659 654751
	Hint: The point of the symbol always points to the smaller number.  small < large   large > small
2	Use the digits 2, 3, 5 and 7 to make five different four-digit numbers.  Use 2, 3, 5 and 7 in each of your numbers.
3	Write the numbers in order starting with the smallest.  Use the spinner twenty five times.  Write the numbers in the boxes to give five-digit numbers.
	Write the numbers in order starting with the smallest.



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**4** Complete this table to show numbers rounded to the nearest 100.

	rounded to the nearest 100
456	
4562	
45 628	
456 281	

Hint: Using a number line can help you.

Use this line to help you with the next part of the table.

400

456

456

4600

- Which number in the list satisfies all the clues? \_\_\_\_\_3826 3778 3783 3762 3781 3819 3772 3779
  - the number is 3800 to the nearest 100
  - the number is 3780 to the nearest 10
  - the number is even.

**Hint:** You can use the clues in any order. Try crossing out the numbers that do not satisfy the clue. You should have just one number left.

Write the eight numbers in order starting with the smallest number.

# 6 Rounding up or down - a game for two players

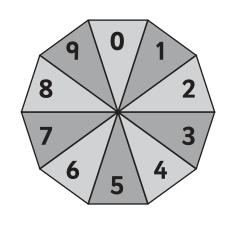
Use the spinner and the record sheet below.

Player 1 spins the spinner four times to create a four-digit number.

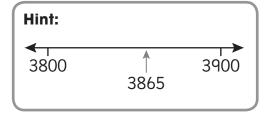
Player 2 rounds the number to the nearest 100.

Example
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1st spin	2nd spin	3rd spin	4th spin
3	8	6	5



3865 rounds up to 3900



If the number rounds up the player scores 1 point and if the number rounds down they score 2 points. In the example, 3865 rounds up so only scores 1 point.

Swap roles and repeat. After five turns each the winner is the player with the higher score.

Player 1		Player 2	Player 2		
Number	Score	Number	Score		
Total		Total			

Unit 1A: Number and problem solving CPM framework 5Nn6, 5Nn8; Teacher's Resource 1.2