Name [.]	Date:

Mathematical and Comparison Operators

After you have matched the operator symbols, names and functions in the large table using the colours. Write them up neatly in the <u>correct section of the table</u> below for your folder.

Remember: a mathematical operator performs a calculation or assigns value, a comparison compares (checks) values.

	Operator	Name	Function
	symbol		
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Mathematical operators			
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Comparison Operators			
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Extra challenge

Can you find out what the extra mathematical symbols below are called and what they do?

	Operator symbol	Name	Function
ator	+=		
Mathematical operator	-=		
ematic	**		
Math	%		

Demonstrate your knowledge and understanding

- 1. Create a new file and type in the following code.
- 2. Add lines of code that will verify (check) that the user has entered a valid number for both X and Y.
- 3. Then save this as 'addition.py' and run it.

```
x = int(input("Enter a number between 1 and 100: "))
y = int(input("Enter another number between 1 and 100: "))
print("X + Y =",x+y)
```

- **4. Subtraction:** Repeat the last program, but this time make it subtract the two numbers. Save it as "subtraction.py" and test it works.
- **5. Multiplication:** Repeat the last program, but this time make it multiply the two numbers. Save it as "multiplication.py" and test it works.
- **6. Division:** Repeat the last program, but this time make it divide the two numbers. Save it as "division.py" and test it works.
- **7. Square:** Repeat the last program, but this time make it calculate x². Save it as "square.py" and test it works.
- **8.** Powers: Repeat the last program, but this time make it calculate x^y . Save it as "powers.py" and test it works. (Hint: use $x^{**}y$)
- **9. Mod:** Repeat the last program, but this time make it calculate the modulus (remainder) of a division. Save it as "mod.py" andtest it works. (Hint: use x%y)

Extra Challenge 1 : Order of Operations / BIDMAS:

Try writing a program that will take a number, multiply by three and then add four.

Try writing a program that will take a number, add four and then multiply by three.

Put the number 7 into both programs and check that they work correctly.

Extra Challenge 2: Create a new maths quiz using the new operators that you have learnt today