Week 2: Unlock the Padlocks Answers 13 04 2020

Padlock 1 : a 2 digit code • The number is even • It is divisible by 10 • The tens digit is the sum of 2 and 3 **Answer: 50**	**Padlock 4: a 4 digit code** • The tens digit is less than 5, even and greater than 1. • The total of all the digits is 15. • The hundreds digit is 1. • The thousands digit is 2 less than the tens digit. • The number is smaller than 3000. **Answer: 2148**
Padlock 2 : a 2 digit code • The number is odd. • It is greater than 33 but less than 40. • The difference between the 2 digits is 4. **Answer: 37**	**Padlock 5: a 5 digit code** • The code is a palindrome. • The hundreds digit is the answer to 27 ÷ 9. • The Hundred thousands digit is 1 more than the thousands digit. • 0 is not used in this number. • The total of all the digits is 3^2. **Answer: 21312**
Padlock 3: a 3 digit code • The total of the digits add to 10. • The product of the hundreds and ones digit is 15. • The hundreds digit is the largest of the three digits. **Answer: 523**	**Padlock 6: a 6 digit code** • The hundreds digit is prime as is the hundred thousands digit. • It is more than 400 000 but less than 500 000. • The digits of the code are consecutive numbers. **Answer: 456789**