

Module assessment – "What's my number?"

MODEL THIS ON THE BOARD

WHAT'S MY NUMBER? — SAMPLE MYSTERY

- 1 **Clue 1:** I am a 4-digit number with no zeros.
- 2 **Clue 2:** My **thousands** digit is **3**.
- 3 **Clue 3:** My **hundreds** digit is **double** my thousands digit.
- 4 **Clue 4:** My **units** digit is the **same** as my thousands digit.
- 5 **Clue 5:** My **tens** digit is **one more** than my units digit.
- 6 **Read down:** thousands = 3, hundreds = 6, tens = 4, units = 3 → **3 643**.

ANSWER KEY

a) Clue 1 alone: ****0.37**** (the only decimal with 3 tenths and 7 hundredths).

b) Clue 2 rules out 0.37 (it's less than 0.4); try again — but the puzzle is intentionally tricky: there is no decimal that satisfies all three. Discuss as a class.

Q1: €3.80 (€3.80 = 380 cent; €3.08 = 308 cent)

Q2: 99.16

Q3: €1.75 (write both as cent: 130 cent vs 175 cent)

Q4: 200,000 (2 hundred thousands)

EXTENSION SHEET · STRETCH ANSWERS

S1: between 3 and 4, closer to 3

S2: between 4 and 5, closer to 4

S3: $-4.1 < 0.1 < 2.9 < 4.8$

S4: $6.26 < 6.89 < 7.753 < 9.4$

S5: $-4.6 < 2.6 < 2.7 < 9$