GCSE Maths

Numbers
Types of Numbers

Simple Questions - Answers

- 1. 600 (hundreds place)
- 2. Four hundred and eight thousand, one hundred and twenty
- 3. 460
- 4. 8,395 rounded to:
 - o Nearest 100 → 8,400
 - $_{\circ}$ Nearest 1,000 \rightarrow 8,000
- 5. 0.509

Medium Questions - Answers

- 6. Multiplying and dividing by powers of 10:
 - \circ 7.38 × 1,000 \rightarrow 7,380
 - \circ 45,600 \div 100 \to 456
- 7. 5.4×10^4
- 8. 0.0063
- 9. 0.405, 0.45, 0.5, 0.54
- 10. 3,000,000

Difficult Questions - Answers

11. Smallest and largest number rounding to 6,800 (nearest 100)

Smallest: 6,750

Largest: 6,849

12. Change in value from 9,832,450 to 9,802,450

Difference: 30,000

13. Which is larger, 4.2×10^5 or 3.8×10^6 ?

$$4.2 \times 10^5 = 420,000$$

$$3.8 \times 10^6 = 3,800,000$$

Answer: 3.8×10^6 is larger

14. Convert 0.43 (0.434343...) to a fraction

Let
$$x=0.434343...x=0.434343...x=0.434343...$$

Multiply by 100: 100x=43.434343...

Subtract: 100x-x=43.434343...-0.434343...

99x=43

x=43/99

15. Finding A and B in 56A3B (divisible by 5 and 3)

Divisibility by 5: B must be 0 or 5

Divisibility by 3: Sum of digits must be a multiple of 3

If
$$B = 0$$
, then sum = $5 + 6 + A + 3 + 0 = 14 + A$

If
$$B = 5$$
, then sum = $14 + A + 5 = 19 + A$

Possible values:

If
$$B = 0 \rightarrow A = 1$$
 or 4 or 7

If B = 5
$$\rightarrow$$
 A = 2, 5, or 8