MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 10

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 Name the property shown: $7 \times 5 = 5 \times 7$ (1)

> **Commutative** property of multiplication (the order was swapped). ✓ (1)

2 Name the property shown: $(2 + 9) + 1 = 2 + (9 + 1)$ (1)

> **Associative** property of addition (the grouping changed). ✓ (1)

3 Use the distributive property to work out 7×98 without a calculator. (2)

> $7 \times (100 - 2) = 700 - 14 = \mathbf{686}$ ✓✓ (2)

4 Use the distributive property to work out 8×53. (2)

> $8 \times (50 + 3) = 400 + 24 = \mathbf{424}$ ✓✓ (2)

5 Fill in the missing numbers: $46 + ___ = 46$ and $46 \times ___ = 46$ (2)

> **0** (additive identity) and **1** (multiplicative identity). ✓✓ (2)

6 What is $0 \div 8$, and what is $8 \div 0$? (2)

> $0 \div 8 = \mathbf{0}$; $8 \div 0$ is **undefined**. ✓✓ (2)

TOTAL: 10 marks

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