MEMORANDUM

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

Date: .....

MARK ____ / 12

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 List all the factors of 36. (2)

1, 2, 3, 4, 6, 9, 12, 18, 36 ✓✓ (2)

2 List all the factors of 40. (2)

1, 2, 4, 5, 8, 10, 20, 40 ✓✓ (2)

3 Write down the first five multiples of 8. (1)

8, 16, 24, 32, 40 ✓ (1)

4 Is 51 a prime number? Give a reason. (2)

No — $51 = 3 \times 17$, so it has factors besides 1 and itself. ✓✓ (2)

5 Write down all the prime numbers between 20 and 30. (1)

23 and 29 ✓ (1)

6 Write 90 as a product of its prime factors. (2)

$90 = 2 \times 3^2 \times 5 \ (= 2 \times 3 \times 3 \times 5)$ ✓✓ (2)

7 Write 84 as a product of its prime factors. (2)

$84 = 2^2 \times 3 \times 7 \ (= 2 \times 2 \times 3 \times 7)$ ✓✓ (2)

TOTAL: 12 marks

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