

| Paper: 1MA1/2F | | | | |
|----------------|---------|----------|------|----------|
| Question | Working | Answer | Mark | Notes |
| 2 Q1 | | 42 or 48 | B1 | 42 or 48 |

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| Question | Working | Answer | Mark | Notes |
| 7 Q2 | | No (supported) | B1 C1 | for showing 11 or 13 or 17 or 19 with no non-prime numbers between 10 and 20, or for showing 23 or 29 with no non-prime numbers between 20 and 30. Ignore any numbers shown below 11. “No” supported by listing 11, 13, 17, 19 and 23, 29 and no non-prime |

| Paper: 1MA1/3F | | | | |
|----------------|---------|-------------------|---------------|--|
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| 3 Q3 | | 1, 2, 3, 6, 9, 18 | B2 [B1 | for all 6 factors with no incorrect for at least 3 factors with no more than one error] |

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| 9 Q4 | | 2, 7 or 3, 13 or 5, 11 or 2, 23 | M1 A1 | for identifying two different prime numbers or two numbers which add up to give a square number or for a list of at least 3 prime numbers with no errors and a list of 3 square numbers with no errors. for two correct prime numbers |

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|----------------|--------|------|-------------|----|---------------------------------|
| Question | Answer | Mark | Mark scheme | | Additional guidance |
| Q5 | 8 (a) | | 25 | B1 | for 25 (accept 5 ²) |
| | (b) | | 24 | B1 | cao |
| | (c) | | 23, 29 | B1 | for 23 and 29 and no extras |

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| 3 (i) | | 15 | B1 | cao |
| Q6 (ii) | | 196 | B1 | cao |

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| 3 Q7 | 5 | B1 | cao | |

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| 10 Q8 | 3 and 29 or 13 and 19 | M1 A1 | for two numbers with a sum of 32, only one of which is prime, eg 5, 27 or 1, 31 cao | Do not accept 1 as a prime number. |

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| 2 Q9 | odd square | B1 | stating an odd square number eg 1, 9, 25, 49, 81, etc. | |

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| 5 Q10 | 14 | B1 | cao | |

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| Question | Answer | Mark | Mark scheme | Additional guidance |
| 6 Q11 | 3 and 9 | P1 | for starting to list factors of 36 or multiples of 3 or odd numbers | Must be at least 3. |
| | | A2 | cao | In either order |
| | | (A1 | for one correct answer) | |

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| 10 Q12 | 23, 29 | B2 | for 23 and 29 and no extras | |
| (a) | | (B1 | for one correct and no more than one incorrect) | 2 correct and 1 incorrect award B1 |
| (b) | Explanation | C1 | for decision and explanation eg yes and because all other even numbers have 2 as a factor | Decision is required may be yes or implied by she is ... oe. Do not accept statements that are ambiguous, or contradictory |

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| 6 Q13 | 1, 2, 3, 5, 6, 10, 15, 30 | B2 (B1) | cao for at least 3 correct factors with no more than one incorrect answer) | Numbers may be shown in any order eg paired; Accept numbers repeated |

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| 1 Q14 | Two correct factors | B1 | for 2 correct factors from 1, 2, 3, 4, 6, 12 and no incorrect factors | Accept one correct product |

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| 4 Q15 | 18 | B1 | cao | |

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|-----------------|----------|------|--------------|---|
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| 4 Q16 | 23 or 29 | B1 | for 23 or 29 | Do not award if any other numbers are included, but award if both 23 and 29 are shown. |

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| 3 Q17 | At least two of 1, 3, 5, 15 | B1 | for at least two of 1, 3, 5, 15 with no incorrect values | Accept 3×5 etc. |

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| 2 Q18 | 48 or 56 | B1 | for 48 or 56 | Accept either or both. Do not award the mark if other numbers are shown with either. |

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| 2 Q19 | 18 | B1 | cao | 18 must be the only number selected for this award |

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| 5 Q20 | 27 | B1 | cao | |

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| 6 (a) | 25 | B1 | cao | |
| Q21 (b) | 24 | B | cao | |

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| 2 Q22 | 2 factors | B1 | at least 2 of 1,5,7,35 | No incorrect factors |

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| 4 Q23 | 10 or 12 | B1 | for 10 or 12 | Accept both 10 and 12 given |

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| 3 Q24 | 13 | B1 | cao | |

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| 5 Q25 | 18 | B1 | cao | |

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| 4 Q26 | Suitable number eg 725 | B1 | for a suitable 3 digit number ending in 0 or 5 | |

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| 3 Q27 | Two from 1, 2, 3, 4, 6, 12 | B1 | for any two correct factors from 1, 2, 3, 4, 6, 12 | Do not allow any incorrect numbers |

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| 11 (a) | Example | C1 | for a correct example, eg $3 \times 4 = 12$ or $12 \div 3 = 4$ or a statement eg '3 is a factor of 12' or '1 is a factor of every number' | This may be seen, for example, in a factor tree or in a list of factors, but there must be no incorrect factors on the tree or in the list |
| Q28 | | | | |
| (b) | Example | C1 | for an example, eg 23 or a statement eg. 'the tens digit may be even' or 'the last digit only needs to be odd' | |