WORKSHEET

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

Date: .....

MARK ____ / 26

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 10th term of 3 ; 7 ; 11 ; ... *(arithmetic term)* (2)

2 8th term of 2 ; 5 ; 8 ; ... *(arithmetic term)* (2)

3 5th term of 3 ; 6 ; 12 ; ... *(geometric term)* (2)

4 6th term of 1 ; 3 ; 9 ; ... *(geometric term)* (2)

5 Which term of 4 ; 7 ; 10 ; ... is 61? *(which term)* (3)

6 Which term of $2\ ;\ 4\ ;\ 8\ ;\ \ldots$ is 256? *(which term)* **(3)**

7 Sum of the first 10 terms of $2\ ;\ 4\ ;\ 6\ ;\ \ldots$ *(arithmetic sum)* **(3)**

8 Sum of the first 15 terms of $3\ ;\ 5\ ;\ 7\ ;\ \ldots$ *(arithmetic sum)* **(3)**

9 Sum to infinity of $6 + 3 + 1{,}5 + \ldots$ *(S_∞)* **(3)**

10 Sum to infinity of $10 + 2 + 0{,}4 + \ldots$ *(S_∞)* **(3)**

TOTAL: 26 marks

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