NAME:

G & T General Ability 1

ROB OLLIS

Edition 1

MC MASTER COACHING

General Ability Sequences and Rate Problems

1   Find the next two terms in each of the following sequences

(a)

| 3 | 8 | 15 | 24 | 35 | 48 | | |

(b)

| 5 | 11 | 23 | 43 | 73 | 115 | | |

(c)

| 0 | 5 | 18 | 16 | 21 | 34 | 32 | 37 | | |

(d)

| 8 | 97 | 9 | 90 | 10 | 83 | 12 | 76 | 15 | 69 | 20 | | |

(e)

| 3 | 5 | 6 | 7 | 9 | 14 | 11 | 13 | 22 | 15 | | |

(f)

| I | T | | O | D | | N | A | | |

2   **Rates Problems**

(a)   Jack paints a fence in six hours, but if Jack and Tom work together it takes four hours to paint the same fence. How long would it take Tom to paint the fence if he worked alone?

(b)   If 12 furnaces use 12 tonnes of coal every 10 hours,
       how long will it take 8 furnaces to use 40 tonnes of coal?

(c)   Five men build a hut in 8 days. Assume all work at the same rate.
       How many men are needed to build the hut in 2 days?

(d)   A clock chimes every 5 minutes and a bell rings every three minutes.
       The clock chimes and the bell rings together at 12:00 noon.
       When is the next time that the two will ring and chime together??

(e)   James and Anna are heading for Lismore. James sets out at 8:00 am, driving at
       60 km per hour, and three hours later Anna sets out.
How fast must Anna drive to catch James in 5 hours?

How fast must Anna drive to catch James in 5 hours? **96 km/hr**

3   Secret Codes

(a)   If HAPPY is written in code as JFORD, how would you write ANGLE in the same code? **CUFNJ**

(b)   In a certain code EDDXSV means BEAUTY. In the same code DVIVNIH means? **AWESOME**

(c)   In a certain code NLFKI means ONION. In the same code ZNMHZ means? **APPLE**

(d)   If LEOPARD is written in code as JHBSYUB how would you write BUFFALO in the same code? **BUFFALO**

3   Complete the Patterns

(a)

32	9
8	40

18	16
3	30

16	6
7	**26**

(b)

6	3
5	52

12	8
7	129

13	10
3	**48**

(c)

3	6
9	75

8	7
12	29

8	21
3	**17**

(d)

17	6
5	7

16	8
8	10

46	5
4	**12**