**October Assessment 2013**

**NUMBER**

**Level 4 – 6**

Name:…………………………………………….. Date:……………………..………………….

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| 1 | A sequence of numbers is shown.  8 14 20 26 ……. …….  Write down the next two numbers in the sequence. | L4 |
| 2 | A different sequence begins  9 15 21 27 33 39  Write down a rule for this sequence.  ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… | L4 |
| 3 | From the list of numbers  1 2 5 8 9 24 30 32  **a** write down the multiples of 8  **b** write down the factors of 45  **c** the square number  **d** the cube number | L4 |
| 4 | Complete the prime factor tree.  770  385  2    111 | L4 |

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| 5 | Fill in the blanks  37 x …….. = 3700  4300 ÷ ……… = 43 | L4 |
| 6 | Put these numbers in order of size.  Start with the **smallest** number.  0.302 0.320 0.032 0.203 0.023 | L4 |
| 7 | Some triangles and stars are drawn below.  Write down the ratio of triangles to stars.  Write down the ratio of stars to triangles. | L4 |
| 8 | Work out 6000 – 3875 | L4 |
| 9 | Work out 541.8 – 20.2 | L4 |
| 10 | Work out 684.75 + 56.4 | L4 |
| 11 | Work out 42 x 6 | L4 |
| 12 | Work out 92 ÷ 4 | L4 |

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| 13 | Work out 5.2 x 6 | L4 |
| 14 | Packets of biscuits cost £1.25 each.  Megan buys six packets of biscuits.  **a** How much does Megan pay?  **b** She pays with a £10 note.  How much change should Megan receive? | L4 |
| 15 | Find the **Lowest common multiple** of **4 and 14** | L5 |
| 16 | Find the **Highest common factor** of 18 and 30 | L5 |
| 17 | Look at the number below.  5.327  What does the digit 7 represent? | L5 |
| 18 | Fill in the blanks.  0.3 x ….… = 300  ………÷ 100 = 0.03 | L5 |

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| 19 | Fill in the boxes.  The first one is done for you.  2.7  2.67 rounded to **one** decimal place is  2.75 rounded to **one** decimal place is  2.05 rounded to **one** decimal place is  2.91 rounded to **one** decimal place is | L5 |
| 20 | Write these temperatures in order.  C:\Users\Japleen\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\1UCIPI0V\MC900027456[1].wmf  Start with the coldest.  −4ºC 3ºC −7ºC 0ºC −2ºC | L5 |
| 21 | Write the ratio **20:12** in its **simplest form**. | L5 |
| 22 | Work out  3 + (-10) = 11 + (-8) =  (-9) – (-9) = (-7) – 9 = | L5 |
| 23 | Work out  2 x (-4) = 20 ÷ (-5) =  (-6) x (-3)= ( -72) ÷ (-8) = | L5 |
| 24 | Look at this calculation  32 x 386 = 12352  Use this information to find answer to  3.2 x 386 = | L5 |
| 25 | Work out 8.2 x 2.5 | L5 |
| 26 | Work out 2 + 5 x 3 | L5 |

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| 27 | Work out 348 x 27 | L5 |
| 28 | Work out 657 ÷ 3 | L5 |
| 29 | Work out 2934 ÷ 5 (if your answer is a decimal round to 2 d.p.) | L5 |
| 30 | Estimate 19 x 43 | L5 |
| 31 | A group of **28** people are going on a trip to a zoo.  The ratio of males to females is **3:4**  How many males are going on the trip? | L5 |

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| 32 | Write 60 as product of its primes.  Write 70 as product of its primes.  Find the highest common factor of 60 and 70.  Find the Lowest common multiple of 60 and 70. | L6 |

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| 33 | Simplify these expressions.  33 x 36  68 ÷ 63  (75)3  2e2 x 9e3  10a7 ÷ 5a5 | L6 |
| 34 | Miss Moneypenny inherits **£880** from a secret agent.  She decides to save some of the money and spend the rest.  The ratio of savings to spending money is **7 : 4**  How much does she save? How much does she spend?  Savings Spending money | L6 |
| 35 | If 9 ties cost £135, how much do 15 ties cost? | L6 |

**End of test**