**Rangitaiki Independent School – Basic Facts and Number Knowledge Test A**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Year Level: (Highlight/Circle) 1 2 3 4 5 6 7 8 9 10 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Stage 5 Early Additive**

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| **STAGE 5 Early Additive**  Expectation: To be achieving at Stage 5 students need to score 3 out of 4 correct in each section in 6 minutes. | | | | | | | | | |
| **Adding up to 20** | 2 + 15 =  6 + 8 =  9 + 7 =  13 + 4 = | **Adding with missing numbers up to 20** | 11 + \_\_\_ = 18  8 + \_\_\_ = 14  \_\_\_ + 3 = 17  \_\_\_ + 5 = 19 | **10 x Multiplication Tables** | 10 x 4 =  10 x 8 =  9 x 10 =  7 x 10 = | **5 x Muliplication Tables** | 5 x 2 =  5 x 9 =  7 x 5 =  8 x 5 = | **2 x Multiplication Tables** | 2 x 6 =  2 x 9 =  8 x 2 =  2 x 3 = |
| **Divided by 10** | 70 ÷ 10 =  50 ÷ 10 =  80 ÷ 10 =  40 ÷ 10 = | **Divided by 5** | 45 ÷ 5 =  30 ÷ 5 =  25 ÷ 5 =  10 ÷ 5 = | **Divided by 2** | 14 ÷ 2 =  6 ÷ 2 =  12 ÷ 2 =  16 ÷ 2 = | **Adding to 100 using 5’s** | 75 + \_\_\_ = 100  35 + \_\_\_ = 100  55 + \_\_\_ = 100  45 + \_\_\_ = 100 | **Subtracting from 100 using 5’s** | 100 – 85 =  100 – 45 =  100 – 25 =  100 – 65 = |
| **Adding doubles to 100 using decades and 5’s** | 35 + 35 =  80 + 80 =  55 + 55 =  45 + 45 = | **Halves of decades up to 100** | ½ of 30 =  ½ of 80 =  ½ of 60 =  ½ of 100 = | **Easy halves to 100** | ½ of 26 =  ½ of 64 =  ½ of 88 =  ½ of 42 = |  |  |  |  |
| Score: \_\_\_\_\_\_ / 52 | | | | | | | | | |

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**Stage 6 Advanced Additive**

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| **STAGE 6 Advanced Additive**  Expectation: To be achieving at Stage 6 students need to score 3 out of 4 correct in each section in 6 minutes. | | | | | | | | | |
| **Subtracting from within 20** | 19 – 7 =  13 – 6 =  15 – 9 =  16 – 9 = | **Subtracting missing numbers from within 20** | 14 - \_\_\_ = 6  17 - \_\_\_ = 9  19 - \_\_\_ = 7  20 - \_\_\_ = 11 | **9 x Multiplication Tables** | 9 x 4 =  9 x 8 =  3 x 9 =  5 x 9 = | **3 x Multiplication Tables** | 3 x 8 =  3 x 5 =  9 x 3 =  3 x 6 = | **4 x Multiplication Tables** | 4 x 6 =  9 x 4 =  4 x 4 =  7 x 4 = |
| **8 x Multiplication Tables** | 8 x 9 =  8 x 4 =  3 x 8 =  6 x 8 = | **7 x Multiplication Tables** | 7 x 4 =  7 x 9 =  8 x 7 =  3 x 7 = | **6 x Multiplication Tables** | 6 x 8 =  6 x 5 =  3 x 6 =  9 x 6 = | **Divided by 9** | 99 ÷ 9 =  36 ÷ 9 =  18 ÷ 9 =  63 ÷ 9 = | **Divided by 3** | 18 ÷ 3 =  27 ÷ 3 =  9 ÷ 3 =  33 ÷ 3= |
| **Divided by 4** | 16 ÷ 4 =  24 ÷ 4 =  36 ÷ 4 =  8 ÷ 4 = | **Divided by 8** | 64 ÷ 8 =  40 ÷ 8 =  56 ÷ 8 =  16 ÷ 8 = | **Divided by 7** | 63 ÷ 7 =  28 ÷ 7 =  77 ÷ 7 =  49 ÷ 7 = | **Divided by 6** | 18 ÷ 6 =  54 ÷ 6 =  36 ÷ 6 =  42 ÷ 6 = | **Adding to make 100** | 49 + \_\_\_ = 100  66 + \_\_\_ = 100  72 + \_\_\_ = 100  37 + \_\_\_ = 100 |
| **Subtracting from 100** | 100 – 86 =  100 – 52 =  100 – 37 =  100 – 74 = |  |  |  |  |  |  |  |  |
| Score: \_\_\_\_\_\_ / 64 | | | | | | | | | |

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**Stage 7 Advanced Multiplicative**

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| **STAGE 7 Advanced Multiplicative**  Expectation: To be achieving at Stage 7 students need to score 3 out of 4 correct in each section in 8 minutes. | | | | | | | | | |
| **Difficult doubles** | 73 + 73 =  48 + 48 =  27 + 27=  67 + 67 = | **Difficult halves** | ½ of 86 =  ½ of 64 =  ½ of 78 =  ½ of 52 = | **adding decades within 1000** | 460 + 320 =  620 + 240 =  310 + 490 =  550 + 270 = | **Adding decades with missing numbers within 1000** | 530 + \_\_\_\_ = 1000  810 + \_\_\_\_ = 1000  240 + \_\_\_\_ = 1000  720 + \_\_\_\_ = 1000 | **Subtracting decades with 1000** | 980 – 420 =  550 – 180 =  690 – 320 =  1000 – 880 = |
| **Subtracting decades with missing numbers within 1000** | 1000 - \_\_\_\_ = 720  1000 - \_\_\_\_ = 210  800 - \_\_\_\_ 540  600 - \_\_\_\_ = 70 | **Division change unknown** | 45 ÷ \_\_\_ = 5  18 ÷ \_\_\_ = 6  50 ÷ \_\_\_ = 5  72 ÷ \_\_\_ = 8 | **Division start unknown** | \_\_\_ ÷ 3 = 7  \_\_\_\_ ÷ 8 = 6  \_\_\_ ÷ 7 = 10  \_\_\_ ÷ 9 = 4 | **Fraction to % conversion** | ⅘ is \_\_\_%  ⅓ is \_\_\_%  ½ is \_\_\_%  ¼ is \_\_\_% | **Write the fraction for...** | 75% is \_\_\_\_  . 33 is \_\_\_\_  40% is \_\_\_\_  . 70 is \_\_\_\_ |
| **Squares** | 7² is \_\_\_\_  4² is \_\_\_\_  9² is \_\_\_\_  6² is \_\_\_\_ | **Square roots** | √ 64 is \_\_\_  √ 25 is \_\_\_  √ 49 is \_\_\_  √ 9 is \_\_\_ | **List at least two factors of...** | **Give at least two factors for the following numbers:**  36 are \_\_\_ \_\_\_  18 are \_\_\_ \_\_\_ | **Divisibility rules** | **Circle the numbers that are:**  **Divisible by 2**  7 18 28 30 51 75 96  **Divisible by 3**  7 18 28 30 51 75 96  **Divisible by 5**  7 18 28 30 51 75 96  **Divisible by 9**  7 18 28 30 51 75 96 | **Conversion to %** | **Write the percentage for...**  0.3 → \_\_\_%  0.75 → \_\_\_%  ½ → \_\_\_%  6/10 → \_\_\_% |
| **Conversion to decimal** | **Write the decimal for...**  70% → \_\_\_\_  27% → \_\_\_\_  4/10 → \_\_\_\_  ¼ → \_\_\_\_ | **Conversion to fraction** | **Write the fraction for...**  80% → \_\_\_\_  25% → \_\_\_\_  0.75 → \_\_\_\_  0.9 → \_\_\_\_ | **All the factors of a number** | **List ALL the factors for this number:**  54  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_  **Score 2 marks** | **Prime Numbers** | **Name 2 Prime numbers less then...**  10  \_\_\_\_ \_\_\_\_  **Name 2 Prime numbers between...**  10 and 100  \_\_\_\_ \_\_\_\_  **Score 2 marks** | **Common multiples** | **Name any 2 common multiples of...**  5 and 8  \_\_\_\_ \_\_\_\_  3 and 12  \_\_\_\_ \_\_\_\_  **Score 2 marks** |
| Score: \_\_\_\_\_\_ / 74 | | | | | | | | | |

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**Stage 8 Advanced Proportional**

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| **STAGE 8 Advanced Proportional**  Expectation: To be achieving at Stage 8 students need to score 3 out of 4 correct in each section in 4 minutes. | | | | | | | | | |
| **Multiply decimals by a power of 10** | 3.9 x 10 =  18.7 x 10 =  66.2 x 10=  7.625 x 10 = | **Divide decimals by a power** | 4.93 ÷ 10 =  85.36 ÷ 10 =  29.8 ÷ 100 =  7.219 ÷ 100 = | **Know 1/10, 1/100, 1/1000 in decimals** | Tenths in 46.2 is \_\_\_\_  Tenths in 8.45 is \_\_\_\_  Hundredths in 9.018 is \_\_\_\_\_  Thousandths in 5.007 is \_\_\_\_\_\_\_ | **Rounding decimals to the nearest 1/10 or 1/100** | **Round to the nearest tenth...**  91.549 is \_\_\_\_\_\_\_  3.528 is \_\_\_\_\_\_\_  **Round to the nearest hundredth...**  386.432 is \_\_\_\_\_\_  79.284 is \_\_\_\_\_\_ | **Highest common factor for...** | 18 and 36 is \_\_\_\_\_\_  21 and 12 is \_\_\_\_\_\_  144 and 48 is \_\_\_\_\_\_  35 and 49 is \_\_\_\_\_\_ |
| **Lowest common multiple of...** | 2 and 3 is \_\_\_  5 and 6 is \_\_\_  10 and 3 is \_\_\_  12 and 2 is \_\_\_ | **Conversion to fraction** | **Write the simplest fraction for...**  20% → \_\_\_\_  35% → \_\_\_\_  0.8 → \_\_\_\_  0.125 → \_\_\_\_ | **Conversion to %** | **Write the percentage for...**  1.3 → \_\_\_\_  0.09 →\_\_\_\_  9/8 → \_\_\_\_  3/5 → \_\_\_\_ | **Conversion to decimal** | **Write the decimal number for...**  85% → \_\_\_\_  127% → \_\_\_\_  3/8 → \_\_\_\_  7/100 → \_\_\_\_ | **simple powers of numbers** | 3ᶟ = \_\_\_\_  5ᶟ = \_\_\_\_  2⁴ = \_\_\_\_  4ᶟ = \_\_\_\_ |
| Score: \_\_\_\_\_\_ / 40 | | | | | | | | | |