**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 + \_\_\_ = 188 + \_\_\_ = 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 + \_\_\_ = 10035 + \_\_\_ = 10055 + \_\_\_ = 10045 + \_\_\_ = 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 - \_\_\_ = 617 - \_\_\_ = 919 - \_\_\_ = 720 - \_\_\_ = 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 + \_\_\_ = 10066 + \_\_\_ = 10072 + \_\_\_ = 10037 + \_\_\_ = 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 + \_\_\_\_ = 1000810 + \_\_\_\_ = 1000240 + \_\_\_\_ = 1000720 + \_\_\_\_ = 1000 | **Subtracting decades with 1000** | 980 – 420 =550 – 180 =690 – 320 =1000 – 880 =  |
| **Subtracting decades with missing numbers within 1000** | 1000 - \_\_\_\_ = 7201000 - \_\_\_\_ = 210800 - \_\_\_\_ 540600 - \_\_\_\_ = 70  | **Division change unknown** | 45 ÷ \_\_\_ = 518 ÷ \_\_\_ = 650 ÷ \_\_\_ = 572 ÷ \_\_\_ = 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 |