The Wilkie Way

NZ Curriculum Mathematical Number Knowledge & Skills Screening Assessment Level 3 Even Year

Student Name _____

Year Group _____

Area of Mathematics		
Whole numbers	/20	
Addition & Subtraction	/20	
Multiplication & Division	/20	
Fractions	/20	
Decimals & Percentages	/20	
Total	/100	

Comments:

	Mid Level 2	Upper Level 2	Early Level 3	Mid Level 3	Upper Level 3	Early Level 4
Overall						
Whole numbers						
Add/Sub						
Mult/Div						
Fractions						
Decimals & %						

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Before you start this booklet complete the headings in this place value chart. This may assist you with answering questions 1 and 2

								ones

These words may be helpful when answer questions about decimals

tenths
hundredths
thousandths

What do you know about whole numbers?

1. Write the <u>value</u> of the underlined digit in each of these numbers in words?
For example: 5**6**7 <u>six tens</u>

a. 5**7**34 _____   b. **2**8 643 _____   c. 563 **0**57 _____

2. Write the following numbers. (You may use the chart to help you)

a. thirty two thousand four hundred and eight

_____

b. fifty six million, twenty seven thousand, four hundred and seventy

_____

c. six hundred and five million, nine thousand and fifty four

_____

3. How many groups of 10 in each of these numbers?

a. 674 _____   b. 3795 _____   **c.** 2078 _____

4. How many groups of 100 in each of these numbers?

a. 5836 _____   **b.** 42 534 _____   **c.** 74 084 _____

5. Round these numbers to the closest hundred

a. 687 _____   **b.** 524 _____   **c.** 875 _____   **d.** 341 _____

6. Round these numbers to the closest ten (decade)

a. 687 _____   **b.** 524 _____   **c.** 875 _____   **d.** 341 _____

Score: /20

What do you know about addition and subtraction?
Complete the following equations.

1a. 6 + 7 = _____   **b.** 28 + 7 = _____

c. 9 + _____ = 14   **d.** 46 + _____ = 52

e. _____ + 8 = 15   **f.** _____ + 7 = 42

2a. 16 - 9 = _____   **b.** 74 - 8 = _____

c. 14 - _____ = 8   **d.** 65 - _____ = 56

e. _____ - 7 = 5   **f.** _____ - 6 = 38

Solve these equations mentally: Write the answer only.

3a. 257 + 29 = _____   **b.** 164 + 19 = _____

Re-write the following equations vertically and solve:

4a. 348 + 37 =   **b.** 4_7 + 47.5 =

5a. 174 - 27 =   **b.** 843.46 - 378.5 =

Estimate the answer to the closest hundred.

6a. 416 + 284 = _____   **b.** 894 - 628 = _____

Score:	/20

What do you know about multiplication and division?
Complete the following equations.

1a. 3 x 7 = _____

b. 8 x 8 = _____

c. 6 x _____ = 24

d. 9 x _____ = 36

e. _____ x 5 = 30

f. _____ x 8 = 48

2a. 28 ÷ 4 = _____

b. 42 ÷ 6 = _____

c. 27 ÷ _____ = 9

d. 54 ÷ _____ = 6

e. _____ ÷ 7 = 7

f. _____ ÷ 5 = 9

Solve the following equations and show how you arrived at your answer.

3a. 16 x 4 =

b. 46 x 8 =

4a. 99 x 3 =

b. 37 x 18 =
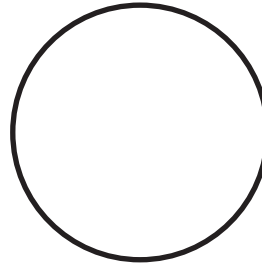
5a. 68 ÷ 4 =

b. 108 ÷ 6 =

6a. 580 ÷ 10 =

b. 630 ÷ 15 =

Score: /20

What do you know about fractions

Show the given fraction by colouring the fraction of the shape or set?

1a. Colour ⅓ of the circle

1b. Colour ⅗ of the rectangle

2a. Colour ⅓ of the counters   ○○○○○○○○○○○○

2b. Colour ⅜ of the counters   ○○○○○○○○○
○○○○○○○○○

Write these fractions where they belong on the number line

3a. $^4/_4$ **b.** $^2/_4$ **c.** $^6/_4$ **d.** $^8/_4$

_____
0   **2**

4a. ⅕   **b.** ¾   **c.** $^6/_3$ **d.** $^3/_2$

_____
0   **2**

5. Choose the fraction from the table equivalent to the fraction given.

$^9/_{24}$	$^4/_{24}$	$^6/_9$	$^6/_{10}$

a. ⅔ _____   **b.** ⅗ _____   **c.** ⅙ _____   **d.** ⅜ _____

Answer the following questions.

6a. What is ⅕ of 40 _____   **b.** What is ⅔ of 24 _____

c. What is ⅚ of 42 _____   **d.** What is ⅞ of 56 _____

Score: /20

What do you know about decimals and percentages?

1. Write the value of the underlined digit in each of these numbers in words?

For example: 5.32   five ones

  a. 6.**5** _____

  b. 8.**7**3 _____

  c. 23.5**4** _____

  d. 4.87**4** _____

2. Write these numbers in sequence from smallest to largest

a. 0.6   0.48   0.2   0.05   0.77

_____

b. 0.38 0.257 0.7 0.435 0.006

_____

3. How many tenths in each of these numbers?

a. 0.54 _____

b. 6.8 _____

c. 2.56 _____

4. How many hundredths in each of these numbers?

a. 0.6 _____

b. 1.34 _____

c. 2.8 _____

5. Write these fractions as decimal numbers.

a. ¾ _____

b. ½ _____

c. ⅖ _____

d. $^9/_{10}$ _____

6. Write these fractions as a percentage

a. ¼ _____

b. ½ _____

c. $^8/_{10}$ _____

d. $^{12}/_{20}$ _____

Score:	/20