The Wilkie Way

NZ Curriculum Mathematical Number Knowledge & Skills
Screening Assessment
Level 4
Even Year

Student Name _____

Year Group _____

Area of Mathematics		
Whole numbers	/23	
Addition & Subtraction	/15	
Multiplication & Division	/20	
Fractions	/22	
Decimals & Percentages	/20	
Total	/100	

Comments:

	Mid Level 3	Upper Level 3	Early Level 4	Mid Level 4	Upper Level 4	Early Level 5
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 question 1

								ones

What do you know about numbers?

1. Write the following numbers.

a. thirty thousand five hundred and seventy eight

_____

b. twenty one million five hundred and sixty three thousand and four

_____

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

a. 468 _____   **b.** 3576 _____   **c.** 23 658 _____

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

a. 6845 _____   **b.** 46 833 _____   **c.** 375 635 _____

4. Complete the table by rounding the numbers in the first column.

	Round to the closest 10	Round to the closest 100	Round to the closest 1000
2768			
67 823			

5. Complete the following:

a. 43.58 x 10

_____

b. 684 x 100

_____

c. 4.28 x 1000

_____

d. 5000 ÷ 10

_____

e. 2148 ÷ 100

_____

f. 476 ÷ 1000

_____

6. These numbers are written in standard form.
   Re write the numbers in full.

a. 5×10^3

_____

b. 4×10^5

_____

c. 3×10^4

_____

Score: /23

What do you know about addition and subtraction?
Solve these equations mentally. Write the answer only.

1a. 567 + 199 = _____   **b.** 456 - 198 = _____   **c.** 257 + 256 = _____

Use a standard written method to solve these equations.

2a. 2437 + 856 =   **b.** 1234 - 468 =

3a. 475 + _____ = 721   **b.** 963 - _____ = 379

4a. 564.4 + 76.83 =   **b.** 846.3 - 68.74 =

Estimate the answer to the following equations to the closest thousand.

5a. 5681 + 3278 = _____   **b.** 7421 - 3865 = _____

Estimate the answer to the following equations to the closest hundred.

6a. 4836 + 878 = _____   **b.** 7642 - 487 = _____

7a. 4587 + 3229 = _____   **b.** 6886 - 2648 = _____

Score: /15

What do you know about multiplication and division?

1a. Write all the factors of 20 _____

b. What is the lowest common multiple of 3, 6 and 9 _____

2. Circle the prime number   9   16   26   39   43   68

Solve these equations mentally. Write the answer only.

3a. 86 x 5 = _____   **b.** 99 x 7 = _____

Solve the following equations efficiently

4a. 36 x 4 =   **b.** 468 ÷ 7 =

5a. 76 ÷ 4 =   **b.** 258 ÷ 3 =

6a. 26 x 48 =   **b.** 63 x 32 =

7a. x 0.6 =   **b.** 15 ÷ 0.25 =

Estimate the answer to the following equations to the closest hundred.

8a. 582 x 8 = _____   **b.** 412 x 7 = _____

9a. 783 ÷ 4 = _____   **b.** 1231 ÷ 3 = _____

Write the answers

10a. 5^2 _____   **b.** 3^3 _____   **c.** 2^5 _____

Score: /20

What do you know about fractions

1a. What is $^1/_4$ of 48 _____   **b.** What is ¾ of 36 _____

c. What is $^5/_8$ of 56 _____   **d.** What is $^7/_5$ of 30 _____

2. Choose the correct fraction from the table equivalent to the fraction given.

$^4/_6$	$^3/_{12}$	$^{18}/_{15}$	$^9/_{24}$

a. ¼ _____   **b.** $^3/_8$ _____   **c.** $^2/_3$ _____   **d.** $^6/_5$ _____

Write these fractions where they belong on the number line

3a. $^1/_4$ **b.** $^2/_4$ **c.** $^3/_4$ **d.** $^5/_4$

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|————————————————————————————————————————|
0                                          2
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4a. $^6/_6$ **b.** $^2/_?$ **c.** $^3/_{10}$ **d.** $^8/_5$

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|————————————————————————————————————————|
0                                          2
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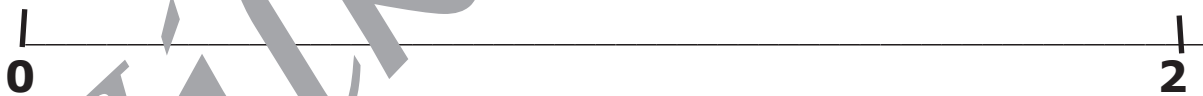
5. Add these fractions and write the answer in its simplest form.

a. $^1/_8 + ^3/_8 =$ **b.** $^2/_3 + ^5/_6 =$ **c.** $^1/_3 + ^2/_9 =$

6. Subtract these fractions

a $^5/_6 - ^1/_6 =$ **b.** $^3/_4 - ^5/_8 =$ **c.** $^4/_5 - ^3/_{10} =$

What do you know about decimals and percentages?

1. Write these numbers in order from smallest to largest.

a.   0.45   0.251   0.6   0.057   0.84 _____

b.   2.3   2.36   2.036   2.306   2.63 _____

2. How many tenths in each of these numbers?

a. 0.73 _____   **b.** 5.4 _____

  How many hundredths in each of these numbers?

c. 0.86 _____   **d.** 2.35 _____

3. Estimate the answer to the closest whole number

a. $35.701 + 23.8 =$ _____ $45.16 + 22.98 =$ _____

c. $68.03 - 25.9 =$ _____   **d.** $84.47 - 32.99 =$ _____

4. Write these fractions as decimal numbers.

a. $^3/_2$ _____   **b.** ¾ _____   **c.** $^4/_5$ _____

5. Write these fractions as a percentage

a. ¾ _____   **b.** $^3/_5$ _____   **c.** $^{11}/_{25}$ _____   **d.** $^7/_{20}$ _____

6. Find

a. 20% of 124 _____   **b.** 60% of 248 _____   c. 25% of 144 _____

Score: /20