



The Wilkie Way

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

Student Name _____

Year Group _____

Area of Mathematics		
Whole numbers	/20	
Addition & Subtraction	/20	Uses range of additive strategies Yes / No
Multiplication & Division	/20	Uses simple multiplicative strategies Yes / No
Fractions	/20	
Decimals & Percentages	/20	
Total	/100	

Comments:

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What do you know about whole numbers?

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

For example: 567 six tens

a. 5734 _____ b. 28 643 _____ c. 563 057 _____

2. Write the following numbers.

a. thirty two thousand four hundred and eight

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

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

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

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

4. How many whole 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. $6 + 7 = \underline{\quad}$

b. $28 + 7 = \underline{\quad}$

c. $9 + \underline{\quad} = 14$

d. $46 + \underline{\quad} = 52$

e. $\underline{\quad} + 8 = 15$

f. $\underline{\quad} + 7 = 42$

2a. $16 - 9 = \underline{\quad}$

b. $74 - 8 = \underline{\quad}$

c. $14 - \underline{\quad} = 8$

d. $65 - \underline{\quad} = 56$

e. $\underline{\quad} - 7 = 5$

f. $\underline{\quad} - 6 = 8$

Solve these equations mentally

3a. $57 + 29 = \underline{\quad}$

b. $64 - 19 = \underline{\quad}$

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

4a. $48 + 37 =$

b. $167 + 175 =$

5a. $74 - 27 =$

b. $843 - 378 =$

Estimate the answer to the closest hundred.

6a. $416 + 284 = \underline{\quad}$

b. $894 - 628 = \underline{\quad}$

Score: /20

What do you know about multiplication and division?

Complete the following equations.

1a. $3 \times 7 = \underline{\quad}$

b. $8 \times 8 = \underline{\quad}$

c. $6 \times \underline{\quad} = 24$

d. $9 \times \underline{\quad} = 36$

e. $\underline{\quad} \times 5 = 30$

f. $\underline{\quad} \times 8 = 48$

2a. $28 \div 4 = \underline{\quad}$

b. $42 \div 6 = \underline{\quad}$

c. $27 \div \underline{\quad} = 9$

d. $54 \div \underline{\quad} = 6$

e. $\underline{\quad} \div 7 = 7$

f. $\underline{\quad} \div 5 = 9$

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

3a. $16 \times 4 =$

b. $46 \times 5 =$

4a. $99 \times 3 =$

b. $45 \times 8 =$

5a. $98 \div 4 =$

b. $108 \div 6 =$

6a. $580 \div 10 =$

b. $140 \div 5 =$

Score: **/20**

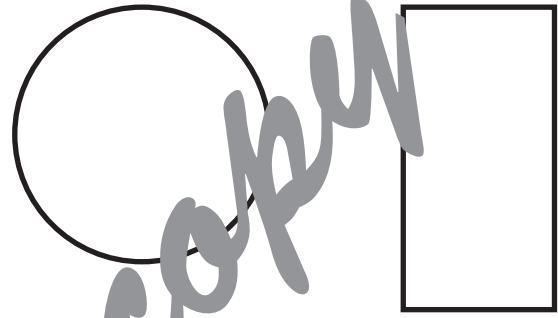
Uses doubling & halving
Uses rounding & compensating
Uses distributive property
Uses written algorithm
Uses place value knowledge

What do you know about fractions

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

1a. Colour $\frac{1}{3}$ of the circle

1b. Colour $\frac{3}{5}$ of the rectangle



2a. Colour $\frac{1}{3}$ of the counters

2b. Colour $\frac{3}{8}$ of the counters

Write these fractions where they belong on the number line

3a. $\frac{4}{4}$ b. $\frac{2}{4}$ c. $\frac{6}{4}$ d. $\frac{8}{4}$



4a. $\frac{1}{5}$ b. $\frac{3}{4}$ c. $\frac{6}{3}$ d. $\frac{3}{2}$



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

$\frac{9}{24}$	$\frac{4}{24}$	$\frac{6}{9}$	$\frac{6}{10}$
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a. $\frac{2}{3}$ _____ b. $\frac{3}{5}$ _____ c. $\frac{1}{6}$ _____ d. $\frac{3}{8}$ _____

Answer the following questions.

6a. What is $\frac{1}{5}$ of 40 _____ b. What is $\frac{2}{3}$ of 24 _____

c. What is $\frac{5}{6}$ of 42 _____ d. What is $\frac{7}{8}$ 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. 8.73 _____

c. 23.54 _____

d. 4.874 _____

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 0.005

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. 0.63 _____

b. 1.34 _____

c. 2.8 _____

5. Write these fractions as decimal numbers.

a. $\frac{3}{4}$ _____

b. $\frac{1}{2}$ _____

c. $\frac{2}{5}$ _____

d. $\frac{9}{10}$ _____

6. Write these fractions as a percentage

a. $\frac{1}{4}$ _____

b. $\frac{1}{2}$ _____

c. $\frac{8}{10}$ _____

d. $\frac{12}{20}$ _____

Score: /20