



The Wilkie Way

NZ Curriculum Mathematical Number Knowledge & Skills Screen 3 Assessment Odd 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:

	Beginning Year 5	End Year 5 Beginning Year 6	End Year 6	
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 you answer questions about decimals

tenths
hundredths
thousandths

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 6 tens

a. 6480 _____ b. 354 796 _____ c. 218 276 _____

2. Write the following numbers.

a. twenty thousand three hundred and forty six

b. six hundred and thirty two thousand and two hundred and thirty three

c. two million, sixty eight thousand and fourteen

3. Multiply these numbers by 100.

a. 358 _____ b. 245 _____ c. 41 035 _____

4. Divide these numbers by 100.

a. 3490 _____ b. 2045 _____ c. 63 064 _____

5. Round these numbers to the closest hundred

a. 378 _____ b. 8413 _____ c. 25 453 _____ d. 623 567 _____

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

a. 548 _____ b. 7264 _____ c. 35 524 _____ d. 135 565

_____0

Score: /20

What do you know about addition and subtraction?

Complete the following equations.

1a. $26 + 7 = \underline{\quad}$

d. $62 - 7 = \underline{\quad}$

b. $68 + \underline{\quad} = 74$

e. $53 - \underline{\quad} = 48$

c. $\underline{\quad} + 8 = 43$

f. $\underline{\quad} - 7 = 27$

Solve these equations mentally. Write the answer only.

2a. $264 + 29 = \underline{\quad}$

b. $2155 + 199 = \underline{\quad}$

3a. $175 - 19 = \underline{\quad}$

b. $1547 - 299 = \underline{\quad}$

Re-write the following equations vertically and solve:

4a. $256 + 74 =$

b. $4268 + 657 =$

5a. $342 - 27 =$

b. $23052 - 4987 =$

6a. $24.5 + 56.2 =$

b. $346.56 + 45.74 =$

7a. $73.8 - 45.3 =$

b. $537.8 - 43.55 =$

Estimate and give the answer to the closest hundred.

8a. $584 + 237 =$

b. $4724 - 2278 =$

Score: /20

What do you know about multiplication and division?

Complete the following equations.

1a. $3 \times 6 = \underline{\quad}$

d. $6 \times 7 = \underline{\quad}$

b. $4 \times \underline{\quad} = 32$

e. $9 \times \underline{\quad} = 54$

c. $\underline{\quad} \times 5 = 35$

f. $\underline{\quad} \times 8 = 64$

2a. $24 \div 4 = \underline{\quad}$

d. $48 \div 6 = \underline{\quad}$

b. $36 \div \underline{\quad} = 9$

e. $56 \div \underline{\quad} = 8$

c. $\underline{\quad} \div 3 = 8$

f. $\underline{\quad} \div 6 = 6$

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

3a. $14 \times 4 =$

b. $24 \times 5 =$

4a. $37 \times 26 =$

b. $216 \times 18 =$

5a. $72 \div 4 =$

b. $86 \div 6 =$

6a. $258 \div 4 =$

b. $642 \div 7 =$

Score: /20

What do you know about fractions

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

1a. Colour $\frac{1}{4}$ of the circle

1b. Colour $\frac{3}{8}$ of the rectangle



Colour the fraction of the set of circles

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



2b. Colour $\frac{2}{5}$ of the circles

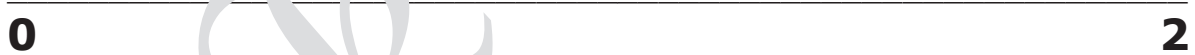


Use your knowledge of improper and equivalent fractions to write these fractions where they belong on the number line

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



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



5. Choose the fraction from the table equivalent to the fraction or mixed number given.

$\frac{8}{10}$	$\frac{15}{12}$	$\frac{6}{8}$	$\frac{15}{6}$
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a. $\frac{3}{4}$ b. $2\frac{1}{2}$ c. $1\frac{1}{4}$ d. $\frac{4}{5}$

Answer the following questions.

6a. What is $\frac{1}{6}$ of 42 _____

b. What is $\frac{3}{4}$ of 32 _____

c. What is $\frac{2}{9}$ of 45 _____

d. What is $\frac{4}{7}$ 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 5 ones

a. 2.3 _____

b. 3.86 _____

c. 25.78 _____

d. 2.236 _____

2. Write these numbers in sequence from smallest to largest.

a. 0.3 0.26 0.6 0.07 0.45

b. 0.65 $\frac{7}{10}$ 35% $\frac{16}{100}$ 0.4

3. Round these numbers to the nearest whole number.

a. 4.2 _____

b. 6.43 _____

c. 8.78 _____

4. Round these numbers to one decimal place.

a. 0.35 _____

b. 1.56 _____

c. 3.62 _____

5. Write these fractions as decimal numbers.

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

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

c. $\frac{1}{5}$ _____

d. $\frac{15}{10}$ _____

6. Write these fractions as a percentage

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

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

c. $\frac{3}{10}$ _____

d. $\frac{8}{20}$ _____

Score: /20

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