



The Wilkie Way

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

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. 6480 _____ b. 34 796 _____ c. 280 276 _____

2. Write the following numbers.

a. twenty thousand three hundred and forty six

b. forty three million six hundred thousand and twenty

c. one hundred and two million, sixty eight thousand and four

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

a. 358 _____ b. 2459 _____ c. 4035 _____

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

a. 3492 _____ b. 23 456 _____ c. 63 064 _____

5. Round these numbers to the closest hundred

a. 378 _____ b. 843 _____ c. 255 _____ d. 627 _____

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

a. 378 _____ b. 843 _____ c. 255 _____ d. 627 _____

Score: /20

What do you know about addition and subtraction?

Complete the following equations.

1a. $7 + 8 = \underline{\quad}$

b. $26 + 7 = \underline{\quad}$

c. $9 + \underline{\quad} = 16$

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

e. $\underline{\quad} + 8 = 14$

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

2a. $17 - 9 = \underline{\quad}$

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

c. $13 - \underline{\quad} = 6$

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

e. $\underline{\quad} - 5 = 9$

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

Solve these equations mentally

3a. $64 + 29 = \underline{\quad}$

b. $75 - 19 = \underline{\quad}$

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

4a. $58 + 26 =$

b. $268 + 154 =$

5a. $63 - 26 =$

b. $632 - 268 =$

Estimate the answer to the closest hundred.

6a. $584 + 237 = \underline{\quad}$

b. $724 - 278 = \underline{\quad}$

Score: /20

What do you know about multiplication and division?

Complete the following equations.

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

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

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

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

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

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

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

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

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

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

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

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

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

3a. $14 \times 4 =$

b. $7 \times \underline{\quad} =$

4a. $99 \times 6 =$

b. $26 \times 8 =$

5a. $72 \div 4 =$

b. $84 \div 6 =$

6a. $670 \div 10 =$

b. $160 \div 5 =$

Score: **/20**

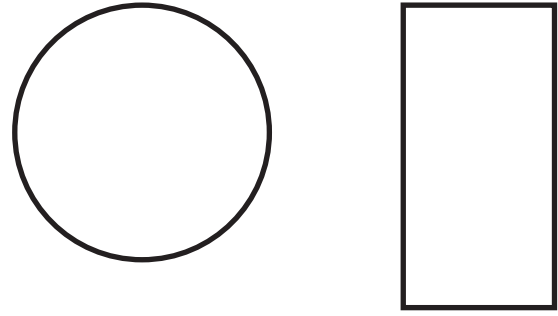
Uses doubling & halving
Uses rounding & compensating
Uses distributive property
Uses written algorithm
Uses place value knowledge

What do you know about fractions

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

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

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



2a. Colour $\frac{1}{4}$ of the counters

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

Write these fractions where they belong on the number line

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



4a. $\frac{1}{3}$ **b.** $\frac{3}{4}$ **d.** $\frac{8}{4}$



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

| | | | |
|---------------|-----------------|---------------|-----------------|
| $\frac{3}{6}$ | $\frac{15}{24}$ | $\frac{6}{8}$ | $\frac{12}{15}$ |
|---------------|-----------------|---------------|-----------------|

a. $\frac{3}{4}$ _____ **b.** $\frac{1}{2}$ _____ **c.** $\frac{5}{8}$ _____ **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 five 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 0.543 0.8 0.756 0.001

3. How many tenths in each of these numbers?

a. 0.62 _____ b. 3.4 _____ c. 6.78 _____

4. How many hundredths in each of these numbers?

a. 0.35 _____ b. 1.56 _____ c. 3.6 _____

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