# Math Screener 

## Grade Six

## Draft - February 2024

## Grade Six

The Cowichan Valley Mathematics Assessment has been designed as a common formative assessment and universal screener for our district. Each grade level assessment is based on foundational skills from the prior year. The assessment is also designed to allow educators to use prior grade assessments to identify learning needs of students. The screener questions align directly with the identified foundational skills found in instructional resource documents for each grade. Access the documents here:
https://bit.ly/MathInstructionalResources


The information gained from this tool will serve as a universal screener for our district's tiered instruction model. The data will inform individual, small group, and class instruction. It will also help identify patterns of instructional needs in a class, school or across the district as we work to ensure students master these foundational skills.

Each fall, classroom teachers and school teams will work together to identify each student's strengths and needs with foundational mathematics skills. Teachers are encouraged to administer the assessment in small sections during the first eight weeks of the school year.

The Mathematics Assessment has been designed in partnership with teachers across our district with the following foundational principles:

1. Aligned with curriculum standards from the previous grade
2. First Peoples Principles of Learning
3. Assessment with and for our learners; not to our learners

In addition, teachers are invited to paraphrase directions to align with classroom language, use classroom materials (alternate concrete materials, dry erase boards, flash cards), and administer the assessment in small parts.

Each grade level screener is an inventory of skills and does not represent the full, complex set of skills necessary for proficiency in mathematics. Our district's Numeracy Framework provides more in- depth information, instructional resources, and intervention strategies.

The Grade Six assessment is a written response format. Teachers are encouraged to do followup interviews when clarification is needed.

Scoring is yes (shows mastery) or no. Where the student is required to provide more than just a numerical answer, some elaborations may be given in the key to help teachers determine mastery.

At this point scores can be collected manually on the provided sheet or entered in an excel spreadsheet also provided. Entry into the dashboard will be available for the Fall of 2024.

This is in draft and feedback is welcome and encouraged. You can use this qr code to provide this feedback.


# Grade Six Math Screener - Fall 

Name:
Date:

## Number Sense

| \# | Question |
| :---: | :---: |
| NS1 | Write three hundred forty-seven thousand sixty-two as a numeral. |
| NS2 | Write one million four hundred thirty thousand forty-five as a numeral. |
| NS3 | How is 89501 written in words? |
| NS4 | Write the numeral that is represented by $800000+40+9000$ |
| NS5 | What is the value of the underlined digit? $6 \underline{2} 7384$ |
| NS6 | Put the following numbers in order from greatest to least. <br> $521035 \quad 506583 \quad 50795 \quad 523004$ |

NS7

| NS12 | Write a common fraction to represent 0.37 |
| :---: | :---: |
| NS13 | Estimate the value represented by each of the letters: <br> A: $\qquad$ B: $\qquad$ C: $\qquad$ D: $\qquad$ |
| NS14 | Put these fractions in order from least to greatest. $\frac{1}{2} \quad \frac{5}{8} \quad \frac{2}{6} \quad \frac{3}{4}$ |
| NS15 | Use numbers, pictures and words to show that 0.25 has the same value (equivalent to) as $\frac{2}{8}$ |

## Computational Fluency

CF1

School District


| CF8 | Solve the following question. $363 \div 24=$ |
| :---: | :---: |
| CF9 | Write the missing numeral: $17+23=20+$ |
| CF10 | $4.5+n=7$ <br> What is the value of $n$ ? |
| CF11 | $n=60000 \div 3000$ <br> What is the value of $n$ ? |

Number Sense Answer Key - Grade Six

| Question \# | Answers |
| :---: | :---: |
| NS1 <br> Source - INA | 347062 |
| NS2 <br> Source - INA | 1430045 |
| NS3 Source - INA | Eighty-nine thousand five hundred one |
| $\begin{gathered} \text { NS4 } \\ \text { Source - INA } \end{gathered}$ | 809040 |
| NS5 <br> Source - INA | 20000 |
| NS6 Source - INA | 50795,506 583, 521 035, 523004 |
| $\begin{gathered} \text { NS7 } \\ \text { Source - INA } \end{gathered}$ | 300000 |
| NS8 Source - INA | 891462 |
| $\begin{gathered} \text { NS9 } \\ \text { Source - INA } \end{gathered}$ | a |
| $\begin{gathered} \text { NS10 } \\ \text { Source - INA } \end{gathered}$ | 0.080, 0.36, 0.371, 0.8, 0.842 |
| NS11 <br> Source - INA | $\frac{1}{4}, \quad \frac{2}{8}, \frac{25}{100}$ |
| $\begin{gathered} \text { NS12 } \\ \text { Source - INA } \end{gathered}$ | $\frac{37}{100}$ |
| NS13 <br> Source - INA | $A-0.1, B-0.6, C-1, D-1.25$ |
| NS14 <br> Source - INA | $\frac{2}{6}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$ |
| NS15 <br> Source - INA | Answers will vary. Look for: <br> 1. parts of whole <br> 2. parts of sets <br> 3. number line representations <br> 4. concrete examples <br> 5. equivalent fractions |

## Computational Fluency Answer Key - Grade Six

| Question \# | Answers |
| :---: | :---: |
| CF1 <br> Source - INA | $\begin{aligned} & 12 \times 5=60 \\ & 5 \times 12=60 \end{aligned}$ <br> (Also accept: $12 \times 5$ and $5 \times 12$ ) <br> Note: Be open to flexible thinking such as $\begin{aligned} & 2 \times 6 \times 5=60 \\ & 3 \times 4 \times 5=60 \\ & \hline \end{aligned}$ |
| CF2 <br> Source - INA | $\begin{aligned} & \hline 56 \div 7=8 \\ & 56 \div 8=7 \\ & \text { (Also accept: } \\ & 56 \div 7 \text { and } 56 \div 8 \text {, expressions) } \end{aligned}$ <br> Note: Be open to flexible thinking such as $56 \div 2=28$ |
| CF3 | Answer $=63262$ |
| CF4 | Answer = 60581 |
| CF5 | Answer = 21.555 |
| CF6 | Answer $=6.724$ |
| CF7 | Answer = 13608 |
| CF8 | $\text { Answer }=15 \mathrm{r} 3,15.125,15 \frac{3}{24}$ |
| CF9 <br> Source - INA | 20 |
| CF10 | 2.5 |
| CF11 | 20 |

