

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.







<u> Grade Six Math Screener – Fall</u>

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 800 000 + 40 + 9 000
NS5	What is the value of the underlined digit? 6 <u>2</u> 7 384
NS6	Put the following numbers in order from greatest to least.
	521 035 506 583 50 795 523 004











Computational Fluency

CF1	1. Write 2 multiplication equation	ons that match thi	s array:	
CF2	Write 2 division equations that	match this array:		
	•••••			
	•••••			
	•••••			
	•••••			
CF3	Solve the following question.			
		25 904 + 37 3	358 =	



CF4	4 Solve the following question.	
	07.052 - 2	5 471 -
	97 032 - 3	5471 -
CF5	5 Solve the following question.	
	16.475 +	5.08 =
CE6	6 Solve the following question	
	Solve the following question.	
	24.07 - 17	.346 =
CF7	7 Solve the following question.	
	406 V C	0 –
	480 X 2	8 =



CF8	Solve the following question.
	363 ÷ 24 =
CF9	Write the missing numeral: 17 + 23 = 20 +
CF10	4.5 + n = 7 What is the value of n?
CF11	n = 60 000 ÷ 3000 What is the value of n?



Number Sense Answer Key – Grade Six

Question #	Answers
NS1	347 062
Source – INA	
NS2	1 430 045
Source – INA	
NS3	Eighty-nine thousand five hundred one
Source – INA	
NS4	809 040
NS5 Source - INA	20 000
	F0 70F F06 F02 F21 02F F22 004
NSO Source – INA	50 795, 506 583, 521 035, 523 004
NS7	300 000
Source – INA	
NS8	891 462
Source – INA	
NS9 Source – INA	a
	0.080 0.26 0.271 0.8 0.842
Source – INA	0.000, 0.30, 0.371, 0.0, 0.042
NS11	1 2 25
Source – INA	$\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{100}$
NS12	37
Source – INA	100
NS13	A – 0.1, B – 0.6, C – 1, D – 1.25
Source – INA	
NS14	$\frac{2}{2}, \frac{1}{2}, \frac{5}{2}, \frac{3}{2}$
NST5 Source – INA	Answers will vary. Look for:
	1. parts of whole
	2. parts of sets
	3. NUMBER line representations
	5 equivalent fractions



Computational Fluency Answer Key – Grade Six

Question #	Answers
CF1	12 x 5 = 60
Source – INA	5 x 12 = 60
	(Also accept: 12 x 5 and 5 x 12)
	Note: Be open to flexible thinking such as
	$2 \times 6 \times 5 = 60$
050	$3 \times 4 \times 5 = 60$
	$56 \div / = 8$
Source – INA	$56 \div 8 = 7$
	(AISO accept)
	$50 \div 7$ and $50 \div 6$, expressions)
	Note: Be open to flexible thinking such as
	$56 \div 2 = 28$
CF3	Answer = 63 262
CF4	Answer = 60 581
CF5	Answer = 21.555
CF6	Answer = 6.724
CF7	Answer = 13 608
CF8	Approx = $15r^2$ 15 125 15
	Answer = 1513, 15.125, 15 -24
CF9	20
Source – INA	
CF10	2.5
CF11	20