COWICHAN VALLEY
School District

Math Screener

Grade Seven

September 2026

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School District

Grade Seven

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 or use the QR code.

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 (concrete materials, dry erase boards, multiplication charts) and administer the assessment in small parts.

Students must have access to specific accommodations as outlined on their IEP. In math this could include calculator.

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 Seven assessment is a written response format. Teachers are encouraged to do follow-up interviews when clarification is needed. To enter scores, teachers will input data into the dashboard. The scoring sheet is attached for ease of entry.

Thank you to all the teachers who were involved in the creation and editing of these screeners.

COWICHAN VALLEY School District

Grade Seven Math Screener

Name: _____ Date: _____

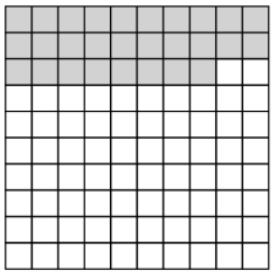
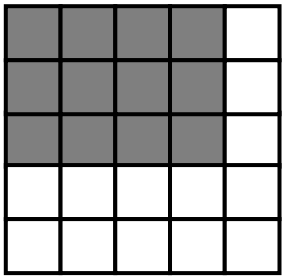
Number Sense

Place Value	
1	Using the number written below, which number represents the place value? 321 479 658**.**1 _____ _____ _____ ten millions hundred thousands hundreds
2	Using the number written below, which number represents the place value? 125**.**793 _____ _____ _____ ones hundred**ths** thousand**ths**
Patterning	
3	Fill in the missing numbers at the start and end of the pattern. [ ] 16 32 64 128 [ ]

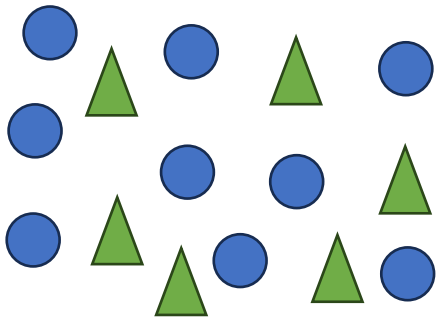
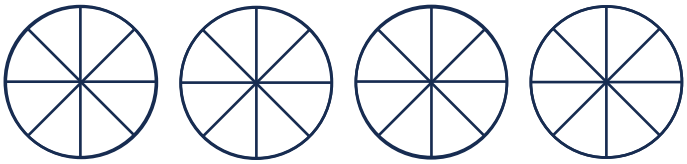
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Factoring	
4	A prime number has only two factors, 1 and itself (i.e. 23 = 1 x 23). Write all **eight** the prime numbers between 0 and 20. _____ _____ _____ _____ _____ _____ _____ _____
5	List all **three prime number factors** of 30 (i.e. 12 = 2 x 2 x 3). A factor tree may be helpful. _____ _____ _____
6	What is the greatest common factor of 24 and 30? _____
Multiples	
7	Circle the **multiples** of 6. (i.e. multiples of 5 = 5, 10, 15, 20…) 3 13 18 32 36 54
8	What is the **least common multiple** of 5 and 6? _____

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Percentage	
9	What percentage of the grid is shaded?  _____
10	What percentage of the grid is shaded?  _____
11	What is 10% of $80? _____
12	50% can be represented in three ways ; $\frac{1}{2}$ 0.5  Represent 25% in three different ways. _____ _____ _____ fraction decimal picture

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Ratios	
13	What is the ratio of **triangles to circles**? _____ : _____ 
14	What is an equivalent ratio of 2 : 5 ? _____ : _____
Fractions	
15	A circle is divided into 8 pieces. If you have $3\frac{5}{8}$ circles. (You may want to lightly shade this in.  How many pieces in total do you have? _____
16	Write the mixed number fraction $3\frac{5}{8}$ as an **improper fraction**. (i.e. $\frac{16}{3}$) _____

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Computational Fluency

Multiplication & Division Whole Numbers			
17	$\begin{array}{r} 324 \\ \times\ 15 \\ \hline \end{array}$	18	$3\overline{)453}$
Multiplication & Division - Decimals			
19	$\begin{array}{r} 4.75 \\ \times\ 3 \\ \hline \end{array}$	20	$6\overline{)5.64}$

Order of Operations	
21	Solve the following question using BEDMAS. Show your work. 2 + 3 x 3 – 1 =
22	Solve the following question using BEDMAS. Show your work. 5 + 5 x 3 – 8 ÷ 2 =

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23	Solve the following question using BEDMAS. Show your work. 18 - 2 x (5 + 3) ÷ 2 =

Solve for Unknown	
24	What is the value of x? Show your work. $3x = 12$ x = _____

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25	What is the value of x? Show your work. $x + 5 = 11$ x = _____
26	What is the value of x? Show your work. $17 - x = 8$ x = _____

Grade 7 Math Screener: Scoring Page for Dashboard Entry

Student Name: _____

Marking: Questions are worth one mark each unless noted below.

Section	Questions	Questions worth more than one mark:	Marks
Place Value	Q. 1 & 2	Q.1 = 3 marks; Q.2 = 3 marks	____/6
Patterning	Q.3	One mark per answer	____/2
Factoring	Q. 4, 5, 6	Q.4 2 marks: 0-3=0 4-7 = 1 8=2	____/4

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Multiples	Q. 7 & 8		____/2
Percentage	Q. 9, 10, 11,12	Q.12 = 3 marks	____/6
Ratios	Q. 13 & 14		____/2
Fractions	Q. 15 & 16		____/2
Multiplication & Division: whole numbers	Q. 17 & 18		____/2
Multiplication and Division: decimals	Q. 19 & 20		____/2
Order of Operations	Q. 21, 22, 23		____/3
Solve for Unknown	Q. 24, 25, 26		____/3

COWICHAN VALLEY School District

Number Sense – Answer Key – Grade Seven

Question	Answers	Marks: 1per Q except as noted
1	2, 4, 6,	3 marks
2	5, 9, 3	3 marks
3	8, 256	2 marks
4	2, 3, 5, 7, 11, 13, 17, 19	Q.4 2 marks: 0-3 = 0 4-7 = 1 8=2
5	2, 3, 5	1 mark
6	6	
7	18, 36, 54	1 mark for three correct answers
8	30	
9	28%	
10	48%	
11	$8	
12	0.25, $\frac{1}{4}$, and a visual (answers can vary, do not accept three of the same form i.e. 3 fractions)	3 marks
13	6:9	
14	(Answers may vary – only 1 needed) 4:10, 6:15, 20:50	
15	29 pieces	
16	$\frac{29}{8}$	
17	4860	
18	151	
19	14.25	
20	0.94	
21	10	
22	16	
23	10	
24	$x = 4$	
25	$x = 6$	
26	$x = 9$	

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