

Math Screener

Grade Five

Draft - February 2024



Grade Five

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 Five assessment is a written response format. Teachers are encouraged to do follow-up 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 Five Math Screener - Fall

| Name: | Date: | |
|-------|-------|--|
| | | |

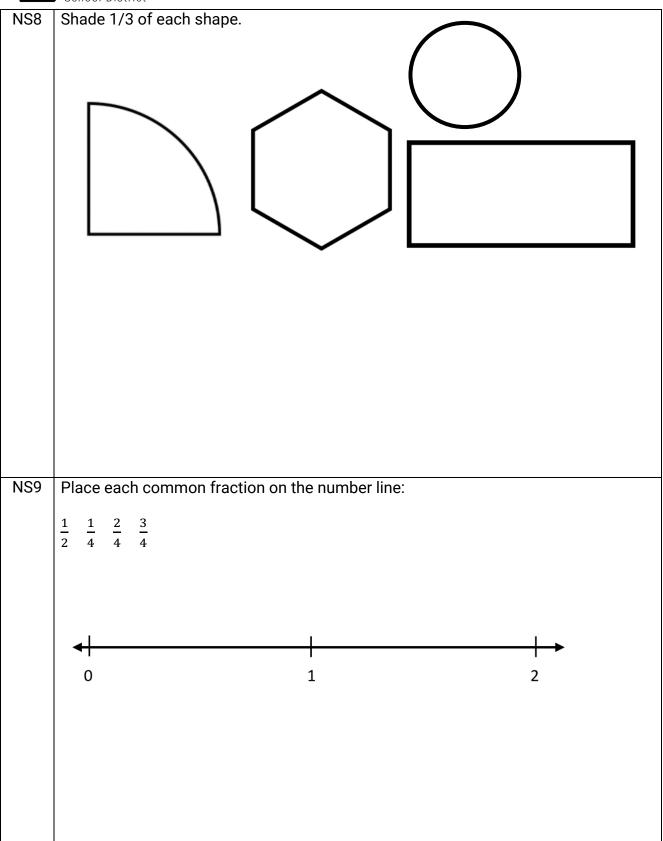
Number Sense

| 1 | |
|------|--|
| # | Question |
| NS1 | Write the number your teacher says. |
| | 1 |
| | 2 |
| | 3 |
| | 4 |
| | |
| NS2 | What is the value of the underlined digit? 3 <u>3</u> 3 3 |
| | |
| NS3 | What is the numeral for nine thousand six hundred two? |
| 1433 | what is the numeral for fille thousand six numered two: |
| | |
| | |
| | |
| NS4 | Write the number that describes how many blocks are shown below. |
| | ATT TO THE PARTY OF THE PARTY O |
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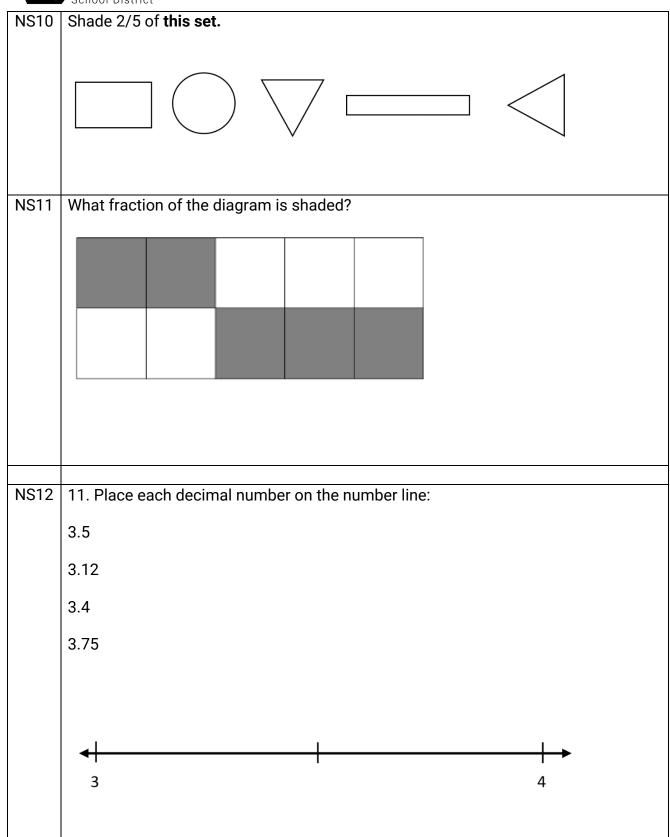


| | - |
|------|---|
| NS5 | Order these numbers from least to greatest. |
| | 2764, 7829, 2746, 3028 |
| | |
| | |
| | |
| NS6 | Place the following numbers on the number line below: |
| 1100 | |
| | 5000 |
| | 9000 |
| | 7500 |
| | 2500 |
| | |
| | ← |
| | |
| | |
| NS7 | Shade 3/4 of each shape. |
| | |
| | |
| | () / / |
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| | |
| | |











| NS13 | Is 0.44 closer to 0.5 or 0.4? |
|------|---|
| NS14 | A fraction and a decimal are quite close together on a number line. What might the two numbers be? Record your choice of one decimal and one fraction on the number line. |
| | Decimals |
| | 0 1.00 |
| | 1.00 |
| | |
| | · · |
| | Fractions |
| | |



Computational Fluency

| CF1 | Solve the following question |
|-----|-------------------------------|
| | 4854 + 3237 = |
| | |
| | |
| CF2 | Solve the following question. |
| | 7843 - 3485 = |
| | |
| | |
| CF3 | Solve the following question. |
| | 5.6 + 2.8 = |
| | |
| | |
| CF4 | Solve the following question. |
| | 8.1 - 3.4 = |
| | |
| | |
| | |
| CF5 | Solve the following question. |
| | 6 X 37 = |
| | 0 / 0 / - |
| | |
| | |
| | |
| | |

| CF6 | Solve the following question. |
|------|-------------------------------|
| | |
| | 4 X 647 = |
| | |
| | |
| | |
| | |
| CF7 | Solve the following question. |
| | 59 ÷ 4 = |
| | 39 - 4 - |
| | |
| | |
| | |
| | |
| CF8 | Solve the following question. |
| | 486 ÷ 3 = |
| | |
| | |
| | |
| | |
| | |
| | |
| CF9 | 3.5 + n = 6 |
| | What is the value of n? |
| | What is the value of it: |
| | |
| | |
| CF10 | n – 250 = 50 |
| | |
| | What is the value of n? |
| | |
| | |
| | |



Number Sense – Answer Key – Grade Five

| Question # | Answers |
|--------------|---|
| NS1 | Ninety-eight, three hundred twenty-seven, one thousand six, |
| Source - INA | twelve thousand twenty (98, 327, 1006, 12 020) |
| NS2 | Three hundred |
| Source - INA | Third Harranda |
| NS3 | 9602 |
| Source - INA | |
| | |
| NS4 | 4328 |
| Source - INA | |
| NS5 | 2746, 2764, 3028, 7829 |
| Source - INA | 27 +0, 27 0+, 0020, 7 029 |
| NS6 | |
| Source - INA | • |
| Source IIVA | 2500 5000 7500 9000 |
| | 2500 5000 7500 9000 |
| NS7 | Various answers. Consider accuracy and how the student partitions evenly. |
| Source - INA | various answers constast assurably and now the statem partitions evenly. |
| | |
| NS8 | Various answers. Consider accuracy and how the student partitions evenly. |
| Source - INA | |
| | |
| NS9 | |
| Source - INA | |
| | ← 1 1 2 1 → |
| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | |
| | $\frac{2}{4}$ |
| | |
| NS10 | Various answers |
| Source - INA | |
| | |
| NS11 | One-half or five-tenths |
| Source - INA | |
| | |
| NS12 | |
| Source - INA | |
| | |
| | ← |
| | 2 24 25 |
| | 3 3.12 3.4 3.5 3.75 4 |
| | |



| School District | |
|-----------------|---|
| NS13 | 0.4 |
| Source - INA | |
| | |
| | |
| | Students may use a number line, or hundred grid, base ten blocks. |
| | |
| | Students may share what they know about rounding. |
| | |
| | |
| NS14 | Possible answers: |
| Source - INA | 1 OSSIDIC dilSWCIS. |
| Source IIVA | 1,0 106 7,0 100 1,4 100 |
| | 1/2 and 0.6, 7/8 and 0.8, 1/4 and 0.2 |
| | |
| | Note <i>if</i> and <i>how</i> students use benchmarks to communicate their reasoning. |
| | |
| | Decimals and fractions are labels on this double number line as scaffolding. |
| | |
| | |
| | |



Computational Fluency – Answer Key – Grade Five

| Question # | Answers |
|------------|------------------------------|
| CF1 | Answer = 8091 |
| CF2 | Answer = 4358 |
| CF3 | Answer = 8.4 |
| CF4 | Answer = 4.7 |
| CF5 | Answer = 222 |
| CF6 | Answer = 2588 |
| CF7 | Answer = 14r3, 14.75, 14-3/4 |
| CF8 | Answer = 162 |
| CF9 | 2.5 |
| CF10 | 300 |