 Christ the Teacher Grade 7 Screener G1 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A group of colorful dice

Description automatically generated with low confidence

How do you feel about Math? Circle one.

Recall: We can represent a number several ways

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| Standard Form | Expanded form | Word form |
| 86 458 | 80 000 + 6000 + 400 + 50 + 8 | Eighty-six thousand four hundred fifty-eight |

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| 1) Write **301 982** in word form. | |
| N 5.1*Representing Number* | |
| 2) Write **40 000 + 3 000 + 700 + 60 + 2**  in standard form. | |
| N5.1 *Representing Number* | |
| 3) Write the number **seven hundred fifty-six thousand nine hundred thirty-**  **seven**inexpanded form | |
| N 5.1 *Representing Number* | |
| 4) Write the number **three million two hundred thirty-nine thousand thirty-seven**in standard form. | 5) Write the value of the underlined digit.  **62 421 384** |
| N6.1 *Representing Number* | N6.1 *Place value* |

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| 6)  Write the value of the underlined digit in words or fraction form.  **81.375** | 7) Write a number greater than 4.1 and  less than 4.2 | |
| N6.1 *Place Value Decimal* | N5.1 *Place value* | |
| 8) Write the number 2.3 billion in standard form | |
| N6.1 *Place Value* | |
| 9) Fill in the blanks to continue the counting pattern:  **54 997 , 54 998 , \_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_** | |
| N5.1 *Representing Number, Place Value* | |
| 10) Write the number that is represented by these base ten blocks in **standard form.**  https://www.teacherfiles.com/clipart/place_value/PV-10A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-10A.jpg  Note:  https://www.teacherfiles.com/clipart/place_value/PV-01A.jpg = 1 whole  https://www.teacherfiles.com/clipart/place_value/PV-100.jpghttps://www.teacherfiles.com/clipart/place_value/PV-100.jpghttps://www.teacherfiles.com/clipart/place_value/PV-1000.jpghttps://www.teacherfiles.com/clipart/place_value/PV-1000.jpghttps://www.teacherfiles.com/clipart/place_value/PV-100.jpghttps://www.teacherfiles.com/clipart/place_value/PV-10A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-10A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpghttps://www.teacherfiles.com/clipart/place_value/PV-01A.jpg | |
| N 5.1*Representing Number* | |
| 11) Order these numbers from **least to greatest.**  **665 104**  **99 856**  **800 279**  **618 951** | |
| N 5.1*Place Value* | |
| 12) Fill in the blanks (Continue the pattern)  **8 452, 8 462, 8 472, 8 482, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |
| N5.1 *Place Value* | |

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| 13) **Estimate** the sum of the following. Show your strategy.  **3 395  + 4 623** | | | | | | |
| N5.4*Estimation* | | | | | | |
| 14) Add **15 341 + 13 201 =** | | | | | | |
| N5.4 *Add (no regrouping)* | | | | | | |
| 15) Add | 16) Subtract | | | | 17) Subtract | |
| N5.4 *Add (regrouping)* | N5.4 *Subtract (No regrouping)* | | | | N5.4 *Subtract (regrouping)* | |
| 18) Multiply.  **22 x 33 =** | 19) Find the product.  **45 x 1000 =** | | | | | 20) Divide.  **40 ÷ 8 =** |
| N 5.2 *Multiply 2 digit by 2 digit* | N 5.2 *Multiplying by factors of ten* | | | | | N5.5 *Division* |
| 21) Divide. Show your remainder.    **5**  **729** | | 22) Divide.  **245 ÷ 5 =** | | 23) What is the greatest common factor of 48, 16 and 40? | | |
| N 5.3 Division *3 digit by 1 digit with remainder* *Strategy* | | N 5.3 *Divide*  *3 digit by 1 digit no remainder* | | N6.2 *Factors and Multiples* | | |
| 24)  **Estimate** the product:  **18 × 72** | | | 25) **Estimate** the quotient:  **198 ÷ 4** | | | |
| N 5.4 *Estimate (Compensation)* | | | N 5.4 *Estimate (Front End Rounding)* | | | |

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| 26) What is the least common multiple of 3,4, and 6? | 27) Circle all the prime numbers  10 15 17 5 21 29 11 |
| N6.2 *Factors and Multiples* | N6.2 *Factors and Multiples* |
| 28) Use any method you like to write all the prime factors of 36 | 29) Calculate |
| N6.2 *Factors and Multiples* | N 6.3 *Order of Operations* |

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| 30) Place these three fractions on the number line.  **1**  **3**  **3**  **4**  **1**  **10**    1  0  1 | | |
| N 5.5 *Fraction* | | |
| 31) Place these three fractions on the number line.  1 | | |
| N 6.7 Fractions | | |
| 32) Split this chocolate bar into **fourths**. | 33) Insert either **<** , **>**, or  **=** between these two fractions  **2**  **5**  **5**  **9** | |
| N 5.5 *Fraction* | N 5.5 *Fraction, compare* | |
| 34) Change to a mixed number | 35) Write as an improper fraction (common fraction) | 36) Write in lowest terms (reduce/simplify) |
| N6.7 *Fractions* | N6.7 *Fractions* | N6.7 *Fractions* |

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| 37) This *thousandths grid* represents **one whole**. Express the shaded part as a decimal. | | | | | | | | 38) Add. | | | | |
| N 5.6 *Decimals to thousandths* | | | | | | | | N5.7 *Decimals to thousandths, add (regrouping)* | | | | |
| 39) Place the decimal where it belongs in this product | | | | | | | 40) Place the decimal where it belongs in this quotient | | | | | | |
| N 6.4*Mult and Div of decimals* | | | | | | | N 6.4*Mult and Div of decimals* | | | | | | |
| 41)Find the product | 42)Divide (do not leave a remainder) | | | | | | | | | 43) Shade 18% of this hundred grid |
| N 6.4*Mult and Div of decimals* | N 6.4*Mult and Div of decimals* | | | | | | | | N 6.5 *Percent* | |
| 44) What **percent** of this shape is shaded? | | 45) Express 35% as a fraction | | | | | | | 46) Insert either **<** , **>**, or  **=** between these two integers  **-6 -10** | |
| N 6.5 *Percent* | | N 6.5 *Percent* | | | | | | | N6.6 *Integers* | |
| 47) Place these integers on the number line  **+5 -5 +2 0 -4 +4** | | | | | | | | | | |
| N6.6 *Integers* | | | | | | | | | | |
| 48) What is the ratio of cars to trucks? | | | | 49) Write an equation with a variable for:  **Five groups of a number is 30.** | | | | | | |
| N6.8 *Ratios* | | | | P5.2 *Equations* | | | | | | |
| 50) Write an equation with a variable for **15 is 4 less than a number** | | | | | | | | | | |
| P5.2 *Equations* | | | | | | | | | | |
| 51) Four friends each bought a package of game cards. All together they have 64 cards. **Write an equation using the variable *x* to represent how many cards are in each package.** | | | | | | | | | 52)  Write an equation with a variable for **seven more than a number is 18.** | |
| P5.2 *Equations* | | | | | | | | | P5.2 *Equations* | |
| 53) Solve for *n*. | | | 54) Solve for *x*: | | | | | | | |
| P5.2 P6.2 *Equations* | | | P5.2 P6.2*Equations* | | | | | | | |
| 55) Write the rule with words or an equation   |  |  | | --- | --- | | 1 | 3 | | 2 | 7 | | 3 | 11 | | 4 | 15 | | 5 | 19 | | | | | | | | | | | |
| P6.1 *Tables and Graphs* | | | | | | | | | | |
| |  |  | | --- | --- | | Figure number | Number of Blocks | |  |  | |  |  | |  |  | |  |  | |  |  |   56) Create a table of values for this increasing pattern    Fig. 4  Fig. 3  Fig. 2  Fig. 1 | | | | | | | | | | | |
| P6.1 *Tables and Graphs* | | | | | | | | | | | |
| The X-Y Axis - Free Math Help57) Plot the point (4,2) | | | | | | |  |  | | --- | --- | | Input | Output | |  |  | |  |  | |  |  | |  |  |   58) Create an input/output table | | | | | |
| P6.1 *Tables and Graphs* SS6.4 *Cartesian Plane* | | | | | | P6.1 *Tables and Graphs* | | | | | |
| 59) Write an equation to represent the rule for this table. Use **C** for cost and **n** for number of guests.   |  |  | | --- | --- | | **Number of Guests** | **Cost** | | 1 | 20 | | 2 | 40 | | 3 | 60 | | 5 | 100 | | n |  | | | | | | | | | | | | |
| N6.3 *Patterns and Relations* | | | | | | | | | | | |
| 60) The area of this rectangle is 24m2, what could the length and width be? | | | | | 61) Find the **perimeter** of the garden:  **12m**  Flower Clipart - Free vector graphic on PixabayFlower Clipart - Free vector graphic on PixabayFlower Clipart - Free vector graphic on PixabayFlower Clipart - Free vector graphic on PixabayFlower Clipart - Free vector graphic on PixabayFlower Clipart - Free vector graphic on Pixabay  **8m** | | | | | | |
| SS5.1 *Area (rectangle)* | | | | | SS 5.1 *Perimeter (rectangle)* | | | | | | |
| 62)Circle the angle that is about 45 | | | | | 63) Find the volume | | | | | | |
| SS6.1 *Angles* | | | | | SS 6.2 *Volume* | | | | | | |
| 64) How many people bought ice cream during the second week of August?  Ice cream sold in July and August | | | | | 65) How deep was the snow on Dec 1? | | | | | | |
| SP5.2 *Double Bar Graph* | | | | | SP 6.1 *Line graphs and data* | | | | | | |