Christ the Teacher Grade 8 Screener H1 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_A picture containing text, clipart, vector graphics

Description automatically generated

A group of colorful dice

Description automatically generated with low confidence

How do you feel about Math? Circle one

|  |  |
| --- | --- |
| 1) Write the value of the underlined digit.  62 421 384 | 2) Write the value of the underlined digit:  4.268451 |
| N6.1 *Place value* | N 7.2 *Place value/decimal* |
| 3) Circle all the numbers divisible by 3  135 65 355 54 9 | 4) All these numbers are divisible by what number?  15 45 90 10 125 |
| N 7.1 Divisibility rules | N 7.1 Divisibility rules |
| 5) Write the number 345 605 084 in expanded form. | |
| N 6.1 *Representing Number* | |
| 6) Write the number 2.3 billion in standard form | 7) What is the greatest common factor of 48, 16 and 40? |
| N 6.1 *Representing Number* | N6.2 *Factors and Multiples* |
| 8) What is the least common multiple of 3,4, and 6? | 9) Circle all the prime numbers  10 15 17 5 21 29 11 |
| N6.2 *Factors and Multiples* | N6.2 *Factors and Multiples* |
| 10) Use any method you like to write all the prime factors of 36 | 11) Calculate |
| N6.2 *Factors and Multiples* | N 6.3 *Order of Operations* |
| 12) Calculate | 13) Express as an improper fraction |
| N 7.2 *Order of Operations, decimals* | N6.7 *Fractions* |
| 14) Change to a mixed number | 15) Write as an improper fraction (common fraction) |
| N6.7 *Fractions* | N6.7 *Fractions* |
| 16) Write in lowest terms (reduce/simplify) | 17)  4.5 + 0.73 + 256.458= |
| N7.5 *Fractions* | N 7.2 Add Decimals |
| 18)  6 – 3.682= | 19) Place the decimal where it belongs in this product |
| N 7.2 Subtract Decimals | N 6.4*Mult and Div of decimals* |
| 20) Place the decimal where it belongs in this quotient | |
| N 6.4*Mult and Div of decimals* | |
| 21) Find the product  0.891  ×16 | 22) Divide (do not leave a remainder)  24.025 ÷ 5 = |
| N 6.4, N 7.2 *Mult and Div of decimals* | N 6.4, N7.2 *Mult and Div of decimals* |
| 23) Shade 18% of this hundredths grid  Table  Description automatically generated | 24) What **percent** of this shape is shaded?  A picture containing clipart  Description automatically generated |
| N 6.5 *Percent* | N 6.5, N7.4 *Percent and Fraction* |
| 25) Express 35% as a fraction | 26) Write as a decimal. |
| N 6.5, N7.4 *Percent and fraction* | N 7.4 Fraction and Decimal |
| 27) Write 0.72 as a percent  0.72 = \_\_\_\_\_\_% | 28) Write 0.04 as a percent  0.04 = \_\_\_\_\_\_% |
| N 7.4 *Decimal and Percent* | N 7.4 *Decimal and Percent* |
| 29) Write 0.145 as a percent  0.145 = \_\_\_\_\_\_% | 30) Order the following from least to greatest  0.56 3 1.4 1.389  \_\_\_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ |
| N 7.4 *Decimal and Percent* | N 7.3 Fraction and Decimal |
| 31) Order the following from least to greatest      \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ | |
| N 7.3 Fraction and Decimal | |
| 32) Place the following approximately where they belong on the number line  0.25 1.2  1  0 | |
| N 7.3 Fraction and Decimal | |
| 33) Add | 34) Subtract |
| N7.5 *Fraction* | N7.5 *Fraction* |
| 35) Insert either **<** , **>**, or  **=** between these two integers  -6 -10 | |
| N6.6 *Integers* | |
| 36) Place these integers on the number line  +5 -5 +2 0 -4 +4 | |
| N6.6 *Integers* | |
| 37) | 38) |
| N 7.6 Integers | N 7.6 Integers |
| 39) | 40) What is the ratio of cars to trucks? |
| N 7.6 Integers | N6.8 *Ratios* |
| 41) Solve for *n*. | 42) Solve for *x*: |
| P5.2 P6.2 *Equations* | P6.2*Equations* |
| 43) Solve for *t*: | 44) Solve for *x*: |
| P 7.3 *Two Step Equation* | P 7.3  *Equation* |
| 45) Solve for *x*: | 46) Evaluate the expression  when |
| P 7.3 *Two Step Equation* | P 7.2 *Evaluate Expression* |
| 47) Write the rule with words or an equation   |  |  | | --- | --- | | 1 | 3 | | 2 | 7 | | 3 | 11 | | 4 | 15 | | 5 | 19 | | |
| P6.1, P7.1 *Tables and Graphs* | |
| |  |  | | --- | --- | | Figure number | Number of Blocks | |  |  | |  |  | |  |  | |  |  | |  |  |   48) Create a table of values for this increasing pattern  Chart  Description automatically generated  Fig. 1 Fig.2 Fig. 3 | |
| P6.1 *Table from pattern* | |
| |  |  | | --- | --- | | Input | Output | |  |  | |  |  | |  |  | |  |  | |  |  |   49) Create an input/output table from this graph    Chart  Description automatically generated | |
| P6.1, P7.1 *Tables and Graphs* | |
| Chart, line chart  Description automatically generated50) Graph using the table of values   |  |  | | --- | --- | | x | y | | 0 | 1 | | 3 | 4 | | 4 | 5 | | 7 | 8 | | |
| P6.1, P7.1 *Tables and Graphs* | |
| 51) 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 |  | | 52) Fill in the table for   |  |  | | --- | --- | | x | y | | 1 |  | | 2 |  | | 3 |  | | 4 |  | |
| P6.3 *Write an equation from a table* | P 7.1 *Create table from equation* |
| 53)Circle the angle that is about 45 | |
| SS6.1 *Angles* | |
| 54) Find the volume | |
| SS 6.2 *Volume* | |
| 55) The diameter of this circle is 12cm. What is the measure of it’s radius?  *r*  D=12cm  *r*=\_\_\_\_\_ | 56) Find the area of this triangle  or  6 m  8 m |
| SS7.1 *Diameter and radius* | SS7.2 *Area of triangle* |
| 57) How many minutes of homework did Ms. Smith give on Thursday?  Chart, bar chart  Description automatically generated | |
| SP5.2 *Double Bar Graph* | |
| Chart, line chart  Description automatically generated58) About how many laptops were sold in April? | |
| SP 6.1 *Line graphs and data* | |
| 59) There are six marbles in this bag. If you reach into the bag and pull out one marble, what is the probability you pull out a white one? | |
| SP 7.3 *Probability* | |