Christ the Teacher Grade 9 Screener I1 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:  4.268451 | 32 Circle all the numbers divisible by 3  135 65 355 54 9 | |
| N 7.2 Place value/decimal | N 7.1 Divisibility rules | |
| 3) All these numbers are divisible by what number?  15 45 90 10 125 | 4) What is the greatest common factor of 48, 16 and 40? | |
| N 7.1 Divisibility rules | N6.2 *Factors and Multiples* | |
| 5) Use any method you like to write all the prime factors of 36 | 6) What is the least common multiple of 3,4, and 6? | |
| N6.2 *Factors and Multiples* | N6.2 *Factors and Multiples* | |
| 7) Circle all the prime numbers  10 15 17 5 21 29 11 | 8)  = | |
| N6.2 *Factors and Multiples* | N8.1 *Square root* | |
| 9)  = | | 10) Calculate |
| *N 8.1 Square a number* | | N 6.3 *Order of Operations* |
| 11) Show approximately where would go on the number line | | |
| N8.1 *Approximate* *Square root* | | |
| 12) Write in lowest terms (reduce/simplify) | 13) Express as an improper fraction | |
| N7.5 *Fractions* | N 6.7 N7.5 *Fractions* | |
| 14) Express as a mixed number | 15) Express as a mixed number | |
| N 6.7 N7.5 *Fractions* | N7.5 *Fractions* | |
| 16) Calculate  4.5 + 0.73 + 256.458= | 17) Calculate | |
| N 7.2 Add Decimals | N 7.2 *Order of Operations, decimals* | |
| 18)  6.5 – 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)  24.125 ÷ 5 = | |
| N 6.4, N 7.2 *Mult and Div of decimals* | N 6.4, N7.2 *Mult and Div of decimals* | |
| 23) What **percent** of this shape is shaded?  A picture containing clipart  Description automatically generated | 24) What **percent** is shown here? | |
| N 6.5, N7.4 *Percent and Fraction* | N 8.2 *Percent greater than 100* | |
| 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 4% as a decimal  4% = \_\_\_\_\_\_ | |
| N 7.4 *Decimal and Percent* | N 7.4 *Decimal and Percent* | |
| 29) Write 0.145 as a percent  0.145 = \_\_\_\_\_\_% | 30) Find 10% of 280 | |
| N 8.2 *Percent less than 1* | N 8.2 *Decimal and Percent* | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 31) Find 120% of 30 | | 32) Calculate | | |
| N 8.2 *Decimal and percent* | | N 8.2 *Decimal and percent* | | |
| 33)Write as a percent. | 34) Order the following from least to greatest  \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ | | | |
| N 8.2 *Decimal and Percent* | N 7.3 Fraction and Decimal | | | |
| 35) Place the following approximately where they belong on the number line  0.25 1.2  1  0 | | | | |
| N 7.3 Fraction and Decimal | | | | |
| 36) Add | | | | 37) Subtract |
| N7.5 *Fraction* | | | | N7.5 *Fraction* |
| 38) | | | 39) | |
| N 8.4 *Multiply Fraction* | | | N 8.4 D*ivide Fraction* | |
| 40) | | | 41) | |
| N 8.4 *Multiply Fraction* | | | N 8.4 D*ivide Fraction* | |
| 42) Calculate using order of operations | | | | |
| N 8.4 *Order of Operations with Fractions* | | | | |
| 43) | | | | 44) |
| N 7.6 *Add Integers* | | | | N 7.6 *Subtract Integers* |
| 45) | | | | 46) |
| N 8.5 *Divide Integers* | | | | N 8.5 *Multiply Integers* |
| 47) | | | | Shirt outlinePants with solid fillSwimsuit outlineSwimsuit outlineShirt outline48) Write a ratio to express the number of shirts to all clothing items.  Swimsuit outlinePants with solid fill  Swimsuit outlineShirt outline  Shirt outlineSwimsuit outline |
| N 7.6 Integers | | | | N8.3 *Ratios* |
| 49) To make hot chocolate, you need 5 scoops of powdered mix for every 2 cups of hot water. How many scoops of powder should you use in a thermos that holds 8 cups? | | | | 50) Solve for *t*: |
| N 8.3 *Proportional Reasoning, rates* | | | | P 7.3 *Two Step Equation* |
| 51) Solve for *x*: | | | | 52) Solve for *x*: |
| P 7.3 P 8.2  *Equation* | | | | P 7.3 P 8.2 *Two Step Equation* |
| 53) | | | | 54) Evaluate the expression  when |
| P 8.2 *Solve equation with brackets* | | | | P 7.2 *Evaluate Expression* |
| 55) Write the rule with words or an equation   |  |  | | --- | --- | | x | y | | 1 | 3 | | 2 | 7 | | 3 | 11 | | 4 | 15 | | 5 | 19 | | | | | |
| P6.1, P7.1 *Tables and Graphs* | | | | |
| |  |  | | --- | --- | | Input | Output | |  |  | |  |  | |  |  | |  |  | |  |  |   56) Create an input/output table from this graph    Chart  Description automatically generated | | | | |
| P6.1, P7.1 *Tables and Graphs* | | | | |
| Chart, line chart  Description automatically generated57) Graph the line using the table of values   |  |  | | --- | --- | | x | y | | 0 | 1 | | 3 | 4 | | 4 | 5 | | 7 | 8 | | | | | |
| P6.1, P7.1 *Tables and Graphs.* SS7.4 *points and the Cartesian plane* | | | | |
| Chart, line chart  Description automatically generated58) Fill in the table and draw the graph of the line.   |  |  | | --- | --- | | x | y | | 0 |  | | 1 |  | | 2 |  | | 3 |  | | | | | |
| P 8.1 *Create graph from equation* | | | | |
| 59) Circle the point that lies on the line  or | | | | |
| P 8.1 *Points on line* | | | | |
| 60) Find the volume. | | | | |
| SS 6.2 *Volume* | | | | |
| 61) The diameter of this circle is 12cm. What is the measure of it’s radius?  *r*  D=12cm  *r*=\_\_\_\_\_ | | | | 62) Find the area of this triangle  or  6 m  8 m |
| SS7.1 *Diameter and radius* | | | | SS7.2 *Area of triangle* |
| 63) Solve for *x* | | | | |
| SS8.1 *Pythagorean Theorem* | | | | |
| 64) Calculate the surface area of this prism  Volume And Surface Area Of A Prism (Video) | annadesignstuff.com | | | | |
| SS8.2 *Surface Area* | | | | |
| 65) 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* | | | | |
| 66) Explain what this data shows about moose and wolf populations in Saskatchewan.  Wolf & Moose Populations - Isle Royale National Park (U.S. National Park  Service)  Moose  Wolves | | | | |
| SP 8.1 *Interpreting data* | | | | |