Christ the Teacher Grade 9 Screener I1 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



How do you feel about Math? Circle one

|  |  |
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| 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 numbers10 15 17 5 21 29 11  | 8) $\sqrt{121}$ = |
| N6.2 *Factors and Multiples* | N8.1 *Square root* |
| 9) $ 8^{2}$= | 10) Calculate$$10÷2+3×(9-2)=$$ |
| *N 8.1 Square a number* | N 6.3 *Order of Operations* |
| 11) Show approximately where $\sqrt{75}$ would go on the number line |
| N8.1 *Approximate* *Square root* |
| 12) Write in lowest terms (reduce/simplify)$$\frac{12}{18}$$ | 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$$\frac{14}{3}$$ |
| N 6.7 N7.5 *Fractions* | N7.5 *Fractions* |
| 16) Calculate4.5 + 0.73 + 256.458=  | 17) Calculate $12-0.5×1.2=$ |
| 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$$16.324 ×3.15=514206$$ |
| N 7.2 Subtract Decimals | N 6.4*Mult and Div of decimals* |
| 20) Place the decimal where it belongs in this quotient$$42.539 ÷5.15= 826 $$ |
| 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 $3/100$ as a decimal. |
| N 6.5, N7.4 *Percent and fraction* | N 7.4 Fraction and Decimal |
| 27) Write 0.72 as a percent0.72 = \_\_\_\_\_\_% | 28) Write 4% as a decimal4% = \_\_\_\_\_\_ |
| N 7.4 *Decimal and Percent* | N 7.4 *Decimal and Percent* |
| 29) Write 0.145 as a percent0.145 = \_\_\_\_\_\_% | 30) Find 10% of 280 |
| N 8.2 *Percent less than 1* | N 8.2 *Decimal and Percent* |

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| 31) Find 120% of 30 | 32) Calculate $$32 358.4÷1000=$$ |
| N 8.2 *Decimal and percent* | N 8.2 *Decimal and percent* |
| 33)Write $^{3}/\_{4}$ as a percent. |  34) Order the following from least to greatest $ \frac{3}{5}$ $\frac{5}{8}$ $1\frac{2}{3}$ $\frac{5}{4}$ $1$ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  |
| N 8.2 *Decimal and Percent* | N 7.3 Fraction and Decimal |
| 35) Place the following approximately where they belong on the number line $1/3$ 0.25 $9/10$ 1.2 $3/5$$$\frac{1}{2}$$10   |
| N 7.3 Fraction and Decimal |
| 36) Add$$6 \frac{2}{3}+1 \frac{5}{6}=$$ | 37) Subtract$$4-1 \frac{1}{5}=$$ |
| N7.5 *Fraction* | N7.5 *Fraction* |
| 38)  $\frac{3}{8}×\frac{4}{15}=$ | 39) $$\frac{5}{8}÷\frac{3}{4}=$$ |
| N 8.4 *Multiply Fraction* | N 8.4 D*ivide Fraction* |
| 40) $$\frac{4}{5}×20=$$ | 41)  $6÷\frac{2}{3}=$ |
| N 8.4 *Multiply Fraction* | N 8.4 D*ivide Fraction* |
| 42) Calculate using order of operations $$\frac{3}{4}+\frac{1}{3}×\frac{5}{8}=$$ |
| N 8.4 *Order of Operations with Fractions* |
| 43) $$(+8)+(-10)=$$ | 44) $$(-12)-(+6)=$$ |
| N 7.6 *Add Integers* | N 7.6 *Subtract Integers* |
| 45)  $$24÷\left(-6\right)=$$ | 46) $$\left(-8\right)×\left(-6\right)=$$ |
| N 8.5 *Divide Integers* | N 8.5 *Multiply Integers* |
| 47) $$(-17)-(-20)=$$ | 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 fillSwimsuit outlineShirt outlineShirt 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*: $$3t+5=23$$ |
| N 8.3 *Proportional Reasoning, rates* | P 7.3 *Two Step Equation* |
| 51) Solve for *x*: $$\frac{x}{4}=7$$ | 52) Solve for *x*: $$\frac{x}{5}-3=7$$ |
| P 7.3 P 8.2  *Equation* | P 7.3 P 8.2 *Two Step Equation* |
| 53)$$3\left(x+5\right)=36$$ | 54) Evaluate the expression  $2x-5$ when $x=8$ |
| 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 |

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| P6.1, P7.1 *Tables and Graphs* |
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| --- | --- |
| Input | Output |
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|  |  |
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|  |  |

 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 |

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| 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.$$y=3x+2$$

|  |  |
| --- | --- |
| x | y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

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| P 8.1 *Create graph from equation* |
| 59) Circle the point that lies on the line $y=-2x+5.$ $(3,-1)$ or $(5,2)$  |
| 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$A=bh/2$ or $A=1/2 bh$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 prismVolume 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)MooseWolves |
| SP 8.1 *Interpreting data* |