(1) CXIX − XX = _______ (Arabic Numeral)
(2) Which is larger: \(-\frac{3}{7}\) or \(-\frac{4}{9}\)? _______
(3) \(\frac{7}{16} = \) ________ % (decimal)
(4) \(8 ÷ 4 - 2 + 4 × 8 = \) _________
(5) \(2002 × 18 = \) __________
(6) \(6543 × 9 - 2 = \) __________
(7) \(18.75\% = \) ________ (proper fraction)
(8) \(\frac{2}{5}\% = \) ________ (fraction)
(9) \(\frac{3}{2} + \frac{20}{5} = \) ________ (mixed number)
*10) \(2007 - 207 + 702 - 7002 = \) _________
(11) \(21 ÷ \frac{2}{1} = \) ________ (mixed number)
(12) \(23^2 = \) ________
(13) The mean of 15, 24, 27, and 34 is ______
(14) If 1cm = .39in., then 3 meters = _____ inches.
(15) \(4 × 12 ÷ 3 - 11 = \) __________
(16) The average of 38, 64, and 92 is ______
(17) \(20 + 24 × 16 ÷ 8 - 12 = \) __________
(18) \(21 × \frac{21}{23} = \) __________
(19) \(42 × 24 = \) __________
*20) \(234 × 252 = \) __________
(21) If \(x + y = 5\) and \(y - x = 3\), then \(y = \) ______
(22) The number 36 has how many positive integral
divisors? __________
(23) 48 ounces = ___________ pints
(24) If a pencil costs $.13 then 12 pencils cost $____
(25) \((29 + 15 × 8)^2 ÷ 7\) has a remainder of ________
(26) \(24^2 + 38^2 = \) __________
(27) \(-3 - 2|1 - 3| + 2|1 - 3| = \) ________
(28) \(97 × 102 = \) __________
(29) If \(f(x) = 4x^2 + 28x + 49\) then \(f(19) = \) ______
*(30) \(41.6\% \text{ of } 1438 = \) __________
(31) \(32 × 72 = \) __________
(32) \((10^5 - 1) ÷ (10 - 1) = \) __________
(33) If \(2|3x - 5| ≥ 14\), then \(x ≥ \) __________
(34) \((\sqrt{49} - \sqrt{169})^3 = \) __________
(35) \((1000 + 1001) ÷ 9\) has a remainder of ________
(36) What is the largest palindrome less than 403? __
(37) \(4^2 + 3 = \) ___________ 7
(38) \(112 × 102 = \) __________
(39) \(1.3444... = \) ________ (mixed number)
*(40) \(\sqrt[3]{1730} × \sqrt[3]{223} × 18 = \) _______
(41) If the GCD of \(x\) and 20 is 5 and their LCM is 180, then \(x = \) __________
(42) Find the units digit of \(13^7\). __________
(43) The short leg of a \(30^\circ - 60^\circ - 90^\circ\) right triangle is 4 cm. The hypotenuse is \___________ cm.
(44) The point \((3, 2)\) is reflected across the x-axis to the point \((h, k)\). Find \(h + k\). __________
(45) \(4! - 6! = \) ________
(46) \(707^2 = \) __________
(47) \( 55 \div .454545 \ldots = \) ________________

(48) \( 101.2 + 102.3 + 103.4 = \) ________________ 10

(49) \( 34 \times 74 = \) ________________

*(50) \( 18^2 \div 9^3 \times 3^6 = \) ________________

(51) The legs of a right triangle are 9" and 40". The length of the altitude to the hypotenuse is ________________ inches.

(52) How many ordered pairs are in the Cartesian product of \( \{1, 2, 3\} \) and \( \{4, 5\} \)? ________________

(53) \( s C_4 = \) ________________

(54) Let \( \frac{8!}{6!} = \frac{x!}{(x-1)!} \). Find \( x \). ________________

(55) \( 35^4 \div 11 \) has a remainder of ________________

(56) The simplified coefficient of the 4th term in the expansion of \( (2x - y)^5 \) is ________________

(57) Let \( \frac{7!}{5!} = \frac{(x-1)!}{(x-2)!} \). Find \( x \). ________________

(58) \( \frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} = \) ________________

(59) \( s P_4 \div s C_2 = \) ________________

*(60) \( 10e \times 10\pi \times 10\phi = \) ________________

(61) \( 1^2 - 2^2 + 3^2 - 4^2 + \ldots - 10^2 = \) ________________

(62) If \( \begin{bmatrix} 5 & 1 \\ 3 & 2 \end{bmatrix} \times \begin{bmatrix} 2 & 1 \\ 2 & 3 \end{bmatrix} = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \), then \( c = \) __________

(63) \( \sqrt{19044} = \) ________________

(64) If \( \sin \left( \frac{\pi}{3} \right) = \cos(A) \), \( A \in QI \), then \( A = \) __ radians

(65) If \( f(x) = x^2 - 9 \) and \( g(x) = 2x + 1 \),
then \( f[g(2)] = \) ________________

(66) \( \frac{5}{2} + \frac{2}{5} \times \frac{1}{4} = \) ________________

(67) Five coins are tossed. What is the probability of getting 4 tails and 1 head? ________________

(68) The slope of the line \( 6x - 4y = -2 \) is __________

(69) How many lines are determined by 4 points no three of which are collinear? ________________

*(70) \( 94 \times 96 \times 102 \times 104 = \) ________________

(71) The radius of the inscribed circle of a 5, 12, 13 right triangle is ________________

(72) \( \frac{7}{6} + \frac{7}{12} + \frac{7}{20} = \) ________________

(73) Change \( \frac{9}{16} \) to a base 4 decimal. _____ base 4

(74) \( \frac{1}{10} + \frac{1}{40} + \frac{1}{88} + \frac{1}{154} = \) ________________

(75) \( 1^3 + 2^3 + 3^3 + \ldots + 10^3 = \) ________________

(76) \( y = \frac{x^3 + 1}{x^3 - 1} \) has how many asymptotes? __________

(77) \( \int_{1}^{2} x^3 \, dx = \) ________________

(78) \( \int_{0}^{2} (3x + 2) \, dx = \) ________________

(79) The horizontal asymptote for \( f(x) = \frac{2x - 1}{x} \) is \( y = \) ________________

*(80) \( (3\pi)^4 = \) ________________