(1) \( 50 \times 200.8 = \quad \) 
(2) \( 10 - 8 + 6 \times 4 \div 2 = \quad \) 
(3) \( 12.3 \times .4 = \quad \) (decimal) 
(4) \( 33^2 = \quad \) 
(5) \( 2010 \div 11 \) has a remainder of 
(6) \( 2009 - 314 = \quad \) 
(7) \( 11 \times 54 = \quad \) 
(8) \( 20.15 - 2.015 = \quad \) (decimal) 
(9) \( XLII = \quad \) (Arabic Numeral) 

*(10) \( 2468 + 3579 + 1001 = \quad \) 
(11) \( CDLX + XCVI = \quad \) (Arabic Numeral) 
(12) \( \text{The LCM of 12, 24, and 18 is} \) 
(13) \( 33 \times 27 = \quad \) 
(14) \( \text{The multiplicative inverse of } 3^{-2} \) is 
(15) \( 39 - 13 \div 4 \times 12 = \quad \) 
(16) \( \frac{1}{3} + \frac{1}{6} + \frac{1}{9} = \quad \) (fraction) 
(17) \( 13 \times 223 = \quad \) 
(18) \( 3 + 9 + 15 + 21 + \ldots + 33 = \quad \) 
(19) \( 83 \times 38 = \quad \) 

* (20) \( 1206 \times 2012 = \quad \) 
(21) \( 15 \times 25 \times 16 = \quad \) 
(22) \( |2 - 3 - 4|5 - 6| + 7| = \quad \) 
(23) \( \text{Find the area of a square whose diagonal is 8in.} \) sq. inches 

(24) \( 2^3 + 3^3 + 4^3 = \quad \) 
(25) \( \text{The multiplicative inverse of } -1.111\ldots \) is 
(26) \( \text{If one dozen eggs cost } $2.40, \text{ then 2.5 dozen eggs cost } \) $ 
(27) \( 2057 \div 17 = \quad \) 
(28) \( .1555\ldots = \quad \) (proper fraction) 
(29) \( \text{If } 2x + 3 = 5x - 9, \text{ then } x = \quad \) 

*(30) \( 783209 \div 247 = \quad \) 
(31) \( \text{The area of an equilateral triangle is } \sqrt{3} \text{ cm}^2. \text{ The side of the triangle is } \quad \) cm 
(32) \( \text{If } a = 5 \text{ and } b = 3, \text{ then } (a-b)(a^2 + ab + b^2) = \quad \) 
(33) \( \text{How many positive integral divisors does } 144 \) have? 
(34) \( \text{If } \sqrt{5} - \sqrt{3} + \sqrt{x} = 1, \text{ then } x = \quad \) 
(35) \( \text{The set } \{m, i, n, u, l, e\} \text{ has } \quad \) 3-element subsets 
(36) \( \text{How many subsets containing 3 elements does the set } \{p, o, l, a, r\} \) have? 
(37) \( \text{Let } x = 2y, \text{ } y = 3z, \text{ and } z = -1. \text{ Find } xyz. \quad \) 
(38) \( 12345 \times 8 + 5 = \quad \) 
(39) \( \quad \)% of 56 is 110% of 28 

* (40) \( \sqrt{3122016} = \quad \) 
(41) \( \text{The slope of line containing the points } (-2, 3) \text{ and } (4, -5) \) is 
(42) \( \text{Find the slope of a line perpendicular to the line containing the points (2, 4) and (-3, 6).} \quad \) 
(43) \( \text{If } 3x - 1 > 14 \text{ then } x > \quad \) 
(44) \( \text{If } 4^{2x} = 25, \text{ then } 4^{3x} = \quad \)
(45) \[ \frac{3}{4}(15^2 - 9^2) = \] 

(46) \[ A^3 \times A^k \div A^4 = A^5. \text{ If } A > 1, \text{ then } k = \] 

(47) The x-intercept of the line \[ 2x + 4y = 5 \] is \((h, k)\). Find \(h\). 

(48) \[ 13 \times 15 + 1 = \] 

(49) If \[ 7^{2x} = 144, \] then \[ 7^{3x} = \] 

*(50) \[ 31^3 \div 83 \times 4 = \] 

(51) \((4 - 7i)(4 + 7i) = a + bi. \) Find \(a + b\). 

(52) 18\% of \(133\frac{1}{3}\) is 

(53) Let \[ \frac{7!}{5!} = \frac{(x - 1)!}{(x - 2)!} \]. Find \(x\). 

(54) \[ 38^2 + (30 + 8)(30 - 8) = \] 

(55) If \(4C_k = 6\), then \(k = \) 

(56) \[ 48 + 24 + 12 + 6 + 3 + \ldots = \] 

(57) The ninth term of 9, 14, 19, 24, \ldots is 

(58) \[ 300_6 \div 4_6 = \] 

(59) If \((4 + 3i) \div (2i) = a + bi, \) then \(a = \) 

*(60) \[ 875 \times 888 \div 77 = \] 

(61) 132 feet per second\(=\) miles per hour 

(62) \[ \log_2[\log_3(\log_2 512)] = \] 

(63) \[ \frac{5!}{2^1 + 3^1} \equiv x(\text{mod}7), \] and \(0 \leq x \leq 6. \) \(x = \) 

(64) \[ (123_5 + 321_5) \div 4 \] has a remainder of 

(65) \[ f(x) = 2x - 5 \text{ and } g(x) = 4x + 3, \] then \[ f(g(-1)) = \] 

(66) If \(f(x) = 2x^3 - 6, \) then \(f'(1) = \) 

(67) The slope of the line perpendicular to the line \[ 2x - 4y = 3 \] 

(68) \[ (456_7 + 654_7) \div 6 \] has a remainder of 

*(69) \[ 1 - 2\sin^2 30^\circ = \] 

*(70) \[ 5^1 + 4^2 + 3^3 + 2^4 + 1^5 = \] 

(71) \[ \lim_{x \to -2} \frac{x^3 + 8}{x + 2} = \] 

(72) If \(f(x) = 2x^3 - 6, \) then \(f'(-1) = \) 

(73) The smallest value of \(x\) in the domain of \(f(x)\) so that \(f(x) = \sqrt{4x + 5}\) has a real valued range is 

(74) \[ \int_0^1 \sqrt{x} \, dx = \] 

(75) Find the least value of \(k\) so that the six digit number \(3467k2\) is divisible by \(6. \) \(k = \) 

(76) \(Y\) varies directly with \(x\) and \(y = 3\) when \(x = 6.\) Find \(y\) when \(x = 22. \) \(y = \) 

(77) If \(f(x) = 2(x + 3), \) then \(f^{-1}(-4) = \) 

(78) \[ \int_1^3 (x + 5) \, dx = \] 

(79) \((4, 60^\circ)\) are polar coordinates for the \((x, y)\) rectangular coordinates. \(x = \) 

*(80) \[ 5300 \text{ inches/second} = \] \(\text{miles/hour}\) 

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