(1) \(13 \times 232 = \) ________________

(2) \(75 \times .84 = \) ________________

(3) \(719 + 917 = \) ________________

(4) \(1616 \div 4 = \) ________________

(5) \(931 - 139 = \) ________________

(6) \(\frac{7}{80} = \) ________________ \% (decimal)

(7) \(7002 - 2007 = \) ________________

(8) \(49 \times 125 = \) ________________

(9) \(16.24 \div .8 = \) ________________

*(10) \(213 + 4711 + 18294 - 7 = \) ________________

(11) The LCM of 27 and 36 is ________________

(12) \(20 \div (16 - 12) + 8 \times 4 = \) ________________

(13) \(\frac{3}{800} = \) ________________ \% (decimal)

(14) \(\frac{3^3}{(2^4)(5^2)} = \) ________________ (decimal)

(15) \(25 \times 248 = \) ________________

(16) Which is larger: \(-2\frac{2}{5}\) or \(-2.35)? ________________

(17) \(2 + 4 + 6 + 8 + \ldots + 22 = \) ________________

(18) \((-2)(-4) - (-6) + (-8) = \) ________________

(19) \(\frac{1}{3} \div 11\frac{1}{3} = \) ________________ (fraction)

*(20) \(97531 \div 246 = \) ________________

(21) \(\frac{2}{5} \times 3\frac{3}{5} = \) ________________ (mixed number)

(22) 4.4 is what percent of 20? ________________ \%

(23) \(1691 \times 9 + 81 = \) ________________

(24) How far will a car travel in 1 hour 20 minutes at a constant rate of 90 mph? ________________ miles

(25) If \(a = 6\), \(b = 9\), and \(c = -3\), then \(bc \div a^2 = \) ________________

(26) \(\frac{2}{3} \times 2\frac{3}{4} = \) ________________

(27) Find the simple interest on \$1500 at 1.5\% for 15 months. \$ ________________

(28) \(756453 \div 4\) has a remainder of ________________

(29) If \(A = 3\), \(B = 5\), and \(C = B\), then \(BC + A = \) ________________

*(30) 87\% of 789 = ________________

(31) 0.24666\ldots = ________________ (proper fraction)

(32) \(13 \times 13 \times 13 = \) ________________

(33) If \(x + (x+3) + (x+6) + (x+9) + \ldots + (x+24) = 144\), then \(x + 12 = \) ________________

(34) If \(x = 7\) and \(y = 2\), then \((x - y)(x^2 + xy + y^2) = \) ________________

(35) If \(x = 5\) and \(y = 3\), then \(9x^2 - 6xy + y^2 = \) ________________

(36) If \(P = -3\), \(Q = -2\), and \(R = -1\), then \(P - Q - R = \) ________________

(37) How many positive integers between 4 and 28 are relatively prime to 28? ________________

(38) The set \(\{F, U, N\}\) has ________________ subsets

(39) \(14 \times \frac{17}{20} = \) ________________

*(40) \(\sqrt{122015} = \) ________________

(41) The side opposite 60° in a right triangle is \(3\sqrt{3}\) units. The length of the other side is ______ units.

(42) \(25 + 2.5 + 0.25 + 0.025 = \) ________________

(43) \(72 \times 1111 = \) ________________

(44) Round \(\sqrt{8} \times \sqrt{6}\) to a whole number. _______
(45) Let $P, Q,$ and $R$ be the roots of $x^3 - 7x = 6.$
Find $(P + Q + R) + PQR.$

(46) $101 \times 458 =$

(47) The sum of the $x$-intercept and $y$-intercept of
$f(x) = 3|x - 4|$ is

(48) $22 \times 4! + 32 \times 3! =$

(49) How many lines exist given five coplanar points
such that no three are collinear?

*(50) $\sqrt{308152015} =$

(51) The vertex of the parabola $x^2 - 6x - 12$ is $(h, k)$
and $k =$

(52) A line perpendicular to $x = -4$ has a slope of ___________

(53) If $x^2 + y^2 = 53,$ $x > y$ and both $x$ and $y$ are
positive integers, then $y =$

(54) \[
\left( \frac{x^2 - 6x + 9}{x - 3} \right) \left( \frac{x^2 + 6x + 9}{x^2 - 9} \right) = x + ___________
\]

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

(56) $(3i - 2) \div (3i + 2) = a + bi,$ $b =$

(57) $(4 - i)^2 = a + bi,$ and $a =$

(58) If $(a - 5i)^2 = -16 - 30i,$ then $a =$

(59) $(3 + 2i)(4 + 5i) = a + bi.$ Find $a + b.$

*(60) $8151947 \div 326 =$

(61) $0.3111...$ base $5 =$ _________ base $5$ (fraction)

(62) The sum of the positive integers less than 18 and
relatively prime to 18 is ___________

(63) The period of $y = 2 + 3\sin \left( \frac{x}{5} \right)$ is ________°

(64) If the range of $f(x) = a \sin(bx) + c$ is $-3 \leq y \leq 11,$
and $a > 0,$ then $a =$

(65) $\cos(\sec^{-1} 2.5) =$

(66) $524_6 + 423_6 + 201_6 =$ _________

(67) If $\log_4 8 = y$ then $y^2 - 1.25 =$

(68) If $\frac{6!}{4!} = \frac{(x - 1)!}{x!},$ Find $x.$

(69) If $2\log_4(x - 5) = 3,$ then $x > 0$ is

*(70) $2^2 + 4^2 + 6^2 + 8^2 + \ldots + 16^2 =$

(71) The dot product of $u = (4, 2)$ and
$v = (-1, 3)$ is

(72) \[
\lim_{x \to +\infty} \frac{x^2}{1 - x^2} =
\]

(73) Find the remainder when $232356$ base 7 is divided
by 7.

(74) $\int_2^4 3x \, dx =$

(75) $\sin^{-1}(0.6) + \sin^{-1}(0.8) =$ _________ (degrees)

(76) $\int_0^1 \sqrt[3]{1 - x^2} \, dx =$

(77) $\lim_{x \to 1} \frac{\sqrt{x - 2}}{x - 4} =$

(78) If $f(x) = 2 - 3x,$ then $f^{-1}(4) =$

(79) If $f(x) = x^5 + x^3 - x,$ then $f''(2) =$

*(80) $\sqrt{2222222} =$

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