

Answer Key

① $5a$

② b^4

③ $3x + 2y$

④ $h^3 \cdot 2k^4$

⑤ $3x^2 + 12x(-9) + 4x^2 + 28$

$7x^2 + 12x + 19$

⑥ $y^2 + 2y - 3y - 12$

$y^2 - y - 12$

⑦ $x - 9 = -4$
 $+9 +9$

$x = 5$

⑧ $-\frac{50}{5} = \frac{5b}{5}$

$-10 = b$

⑨ $\frac{c}{-14} = -5 \cdot -14$

$c = 70$

⑩ $4x + 12 = -48$ KCC
 $-12 -12$ $-48 + 12$

$\frac{4x}{4} = \frac{-60}{4}$

$x = -15$

⑪ $\frac{b+7}{-2} = 33 \cdot -2$

$b+7 = -66$ KCC
 $-7 -7$ $-66 -7$

$b = -73$

⑫ $-2y + 7y - 3 = -19 + 1$

$5y - 3 = -18$
 $+3 +3$

$\frac{5y}{5} = \frac{-15}{5}$

$y = -3$

⑬ $2a + 4a + 6a - 2(a+3) = 24$

$12a - 2a - 6 = 24$

$10a + 6 = 24$
 $+6 +6$

$\frac{10a}{10} = \frac{30}{10}$

$a = 3$

⑭ $-4(b+3) - 2b = 24$

$-4b - 12 - 2b = 24$

$-6b - 12 = 24$
 $+12 +12$

$\frac{-6b}{-6} = \frac{36}{-6}$

$b = -6$

⑮ $-14g^4 - 2g^2 + 8$

⑯

$10f - 5f^4 + 6f^2 - (10f^2 + 12f^4 - 6)$
 $10f - 5f^4 + 6f^2 - 10f^2 - 12f^4 + 6$

$-17f^4 - 4f^2 + 10f + 6$

⑰ $4(-2)^2 + (-2)$

$4(4) + (-2)$

$16 - 2 = 14$

⑱ $6a + 8b - 7$

$6(-3) + 8(5) - 7$

$-18 + 40 - 7$

$-3 + 15 = 12$

⑲

a. $d + 4d + d + 4 + d$

$4d + 8$

b. $d(d+4)$

$d^2 + 4d$

c. $4d + 8 = 88$

$-8 -8$

$\frac{4d}{4} = \frac{80}{4}$

$d = 20$

$l = 20m$
 $w = 27m$

d. $(27)(20) = 480m^2$