

EXERCISE L.—(Page 57). (1) 45; 40. (2) 48; 6.
 (3) 72; 54. (4) 70; 32. (5) $\frac{11}{17}$. (6) 42; 38. (7) 94.
 (8) \$10.80; \$4.50. (9) $4\frac{1}{2}$; $3\frac{3}{4}$. (10) 52; 48.

MISCELLANEOUS EXAMPLES. — (Page 58).
 A.—(1) b. (2) $-8a - 3b - c - 6d$. (3) 4. (4) $4 - 12x + 25x^2 - 44x^3 + 46x^4 - 40x^5 + 25x^6$. (5) $-4x^2 + 10y^2 + 5x^2$. (6) 11. (7) $x^2 + x - 2$; $x^5 + 2x^4 + 2x^3 + 2x^2 + 8$.

(8) $\frac{x}{a-x}$. (10) $(10a - 1)(a + 8)$; $(3a - b)(3a + b)(9a^2 + 3ab + b^2)(9a^2 - 3ab + b^2)$. (11) 13. (12) 1. (13) $32x^5 + 76x^4 - 25x^3 - 198x^2 - 48x + 135$. (14) $3 - 12x$

$+ \frac{46}{5}x^2 + 8x^3$. (15) $\frac{7bc}{13a^3}$. (16) $\frac{3x^2 + 7x - 12}{x^4 - 25x^2 + 144}$.

(17) $a - b$. (18) $(x - 5y)(x + 8y + 1)$. (19) $(2a + 3b)(2a - 3b)(x - 2a)(x^2 + 2ax + 4a^2)$; $(m - 2)(m + 2)(m^2 + 2m + 4)(m^2 - 2m + 4)$. (20) o. (21) $a^2b + b^2c + c^2a + ab^2 + bc^2 + ca^2 + 2abc$. (22) $\frac{a^2b - a^2c + b^2c - ab^2 + ac^2 - bc^2}{(a - b)(b - c)(a - c)}$.

(23) 47. (24) 23. (25) 32. (27) $x^6 - 64$. (28) $x + 6$.
 (29) $15a^2 + 11a - 12$. (30) $(a^3 - 1)x^2 - a^2(a^2 + 2)x + a^3 + 1$.
 (31) $16a^2b^2$. (32) $16ab^3$. (33) $(a - b)(a + b)(a^2 + b^2)(a^4 + b^4)(a^8 + b^8)$. (34) $\frac{1}{16}$. (35) 400. (36) 11025.

(37) $2x - 9$. (38) $\frac{x-y}{4z}$. (39) 2. (40) $(a+b)(a-c)$. (41) $x^2 - 2xy + y^2$. (42) $(x - 26)(x - 62)$. (43) $kl^2 + lm - km$; $\frac{3}{2}a^3 - 5a^2 + \frac{1}{4}a + 9$. (44) m. (45) $b + c - a$. (46)

$(2x^2 - y^2)(3x - 2y)$. (47) $\frac{3x^2}{y} + \frac{2x}{y} - \frac{1}{y} + \frac{1}{xy}$.

(48) $-6a + 3b + 6c$. (49) $3m + 10n + 12p$. (50) $25a + 8b - 3c$. (51) $147a - 109b - 167c$. (52) $2a^2b^2 + 2a^2c^2$

$+ 2b^2c^2 - a^4 - b^4 - c^4$. (53) $\frac{6ax - 2by + bxy}{2axy}$; $5x^2$.