

Math 7 - Answers to selected problems in J7 Chap 3

Pages 68-73

[1] Area: ab square centimeters. Perimeter: $2a + 2b$ centimeters.

[2.1] Terms: $4a$ and $-b$. Coefficient of $4a$ is 4. Coefficient of $-b$ is -1 .

[2.2] Terms: x and $6y$. Coefficient of x is 1. Coefficient of $6y$ is 6.

[2.3] Terms: $7x^2$ and $-4x$. Coefficient of $7x^2$ is 7. Coefficient of $-4x$ is -4 .

[3.1] Linear expressions: $2a + 3$, $-3b + 4$, $5x$, $-y$. The term x^2 is not a linear expression. *Note: an expression is linear if no variable has an exponent other than 1. The exponent of x^2 is 2.*

[4.1] $3a - 4$

[4.2] $10a - 15$

[4.3] $-2c - 10$

[4.4] $-12x + 20$

[4.5] $\frac{2}{3}x - 4$

[4.6] $16x - 6$

[5.1] $3x + 3$

[5.2] $15x - 9$

[5.3] $4x + 10$

[6.1] $13x$

[6.2] $4y$

[6.3] x

[6.4] $4a$

[6.5] y

[6.6] $-a$

[7.1] $-3a$

[7.2] $-7x$

[7.3] $4x - 2$

[7.4] $-6a + 3$

[7.5] $\frac{a}{2} + 2$

[7.6] $-\frac{2m}{3} + \frac{8}{3}$

[8.1] $9a + 3$

[8.2] $5x - 2$

[8.3] $a + 1$

[8.4] $8 - 10a$

[9.1] $7a - 10$

[9.2] $11 - a$

[9.3] $a - 3$

[9.4] $7a - 6$

[10.1] $16x - 3$

[10.2] $-x + 22$

[10.3] $6x - 22$

[10.4] $19x - 22$