Chapter 5 BLM Answers

BLM 5–1 Chapter 5 Problems of the Week

1. 5; 35; 7; 4, 11, 18, 25, 32, 39; 29.
2. a) $2x^2 + 2x + 2$ **b)** $x^2 + x + 1$ **c)** $x^2 + x + 1$
d) 3
3. 0.05; 0.05n; 0.1; 0.1d; 2(0.05n); 0.75;
$0.75 = 2(0.05n) + 0.05n$; There are 6 dimes and 3 nickels.

BLM 5–5 Section 5.1 Extra Practice

1.

	Number of Terms	Type of Polynomial
a) $-2x^2$	1	monomial
b) $a + b^2 + s$	3	trinomial
c) $y - 5$	2	binomial
d) $3d^2 - 5xy$	2	binomial
e) r	1	monomial
f) $b^2 - 2b + 7$	3	trinomial

2.

	Number of Terms	Type of Polynomial	Degree of Polynomial
a) $6t$	1	monomial	1
b) $x^2 + 3y - 2$	3	trinomial	2
c) $9 - r$	2	binomial	1
d) $a - 2b + 4ab$	3	trinomial	2
e) $-cd$	1	monomial	2
f) $5s^2 - st$	2	binomial	2

3. a) 3 **b)** 3 **c)** –4 **d)** 2 **e)** 2 **f)** –8
4.

	Degree of Polynomial	Number of Terms
a) $f + g + h$	1	3
b) $m^2 - mn + n^2$	2	3
c) $x - y$	1	2
d) s^2	2	1
e) 31	0	1
f) $5d^2 + dh - 11h^2 + 3$	2	4

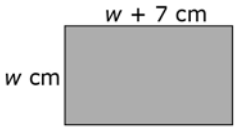
5. a) $-x + 3$ **b)** $x^2 + x - 2$ **c)** $-2x^2 - 3x + 4$
d) $2x^2 - 5$

BLM 5–7 Section 5.2 Extra Practice

1.

	Coefficient	Variable(s)
a) $-t$	–1	t
b) $4d^2$	4	d
c) 12	none	none
d) $-8de$	–8	d, e
e) b	1	b
f) $-c^2$	–1	c

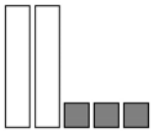
2. A: –4 is the coefficient
B: a constant
C: a monomial with a degree of 2
D: a binomial with a degree of 2
E: –1 is the coefficient
F: a binomial with two variables
3. a) $4x$, $-x$ **b)** 6, –2.5, –0.1
c) a, $7a$, $1.5a$ **d)** f^2, $-6f^2$
e) $6st$, $\frac{3}{4}st$, $-st$ **f)** $-0.6p^2$, $-p^2$, $10p^2$
g) $0.5jk$, $-jk$, $6jk$ **h)** $\frac{2}{5}$, 0.12, 9
4. a) $2m^2 + 3m - 6$ **b)** $-8k^2 + k + 8$
c) $2c$ **d)** $12n + 6$ **e)** $b^2 - 14b$ **f)** $7w$
5. a)



b) $P = w + (w + 7) + w + (w + 7)$
c) $4w + 14$

BLM 5–9 Section 5.3 Extra Practice

1. a) $3x^2 + x^2 - 2x + x$, $4x^2 - x$
b) $4n^2 - n^2 - 2n + 5n - 4$, $3n^2 + 3n - 4$
c) $3r^2 + 7r - 8 - 11$, $3r^2 + 7r - 19$
d) $2b^2 - 2b^2 - 8b + 11b$, $3b$
e) $7t^2 - 2t^2 - 6t + 6t + 9 - 5$, $5t^2 + 4$
f) $-14k + 8k - 10 - 23$, $-6k - 33$
2. a)



$-2x + 3$

b)

x^2+3x
3. a) $-6a$ **b)** $3c^2 + 9$ **c)** $-d^2 + 8d - 2$
d) $-6w^2 - 4w + 0.8$
4. a) $(5a - 4) + (-3a + 2)$, $5a - 3a - 4 + 2$, $2a - 2$
b) $(7 - 6r) + (-3 - r)$, $-6r - r + 7 - 3$, $-7r + 4$
c) $(6y^2 - 2y) + (y^2 + 3y)$, $6y^2 + y^2 - 2y + 3y$, $7y^2 + y$
d) $(8 - 5t) + (9 + 4t)$,$-5t + 4t + 8 + 9$, $-t + 17$
e) $(h - 1) + (-3h^2 - 7)$, $-3h^2 + h - 1 - 7$, $-3h^2 + h - 8$
f) $(4k^2 - 6k + 1) + (2k^2 - 5)$, $4k^2 + 2k^2 - 6k + 1 - 5$, $6k^2 - 6k - 4$
5. a) $(x - 2) + (2x - 6) + (3x - 9)$

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b) (6 – 2) + [2(6) – 6] + [3(6) – 9] = 19
c) $x + 2x + 3x - 2 - 6 - 9 = 6x - 17$
d) 6(1) – 17 = 19
e) Answers will vary. Example: They are the same.

BLM 5–11 Chapter 5 Test

1. A **2.** C **3.** B **4.** B
5. 0 **6.** 1 **7.** x **8.** $-3x^2 + x - 2$
9. a) B **b)** D **c)** A **d)** C
10.

+

=

$x^2 + 2x + 3$
11. a) 12.5n **b)** 50 + 5n **c)** 17.5n + 50 **d)** $155

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