		Name		Date
Master 5.19 Extra Practice 1				
Lesson 5.1: N	Iodelling Po	lynomials		
1. Identify the	polynomials in t	he following expression	1S.	
a) $2m^2 + 1$	b) $3x^{\frac{1}{2}}$	c) -4 <i>x</i>	d) $\frac{1}{x^2 + x}$	e) $0.25y^2$
 Name the co a) -8y 	efficients, varia b) 12	ble, degree, and constant c) $-2b^2 - b + 10$	t term of each po d) $-4 - b$	lynomial.
 Identify each a) 19t 	b) $g - 4g^2$	a monomial, binomial, + 5 c) $-1 + xy + y^2$	or trinomial. d) 4 – 11w	
4. Identify the a a) $-h^2 - 3 + \frac{1}{2}$ c) $5m - 3$ e) $y^2 + 5xy + \frac{1}{2}$		homials. b) $-3 + 4h$ d) $-2 + y^2$ f) $-3 + 5h$	+5xy	
		ach polynomial. Sketch c) $-3a^2 - 2a +$		e) $v^2 - 4v$
a) 2 terms,	degree 1, with a	the following conditio constant term of 4 he coefficient on the 2n		

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Master 5.20) Extra Practice 2

Lesson 5.2: Like Terms and Unlike Terms From the list, identify terms that are like 2w². Explain how you know they are like terms. -5w, -6w², -2, 4w, 3w², -w², 11w, 2

2. Use algebra tiles to model each polynomial, then combine like terms. Sketch the tiles for the simplified polynomial.

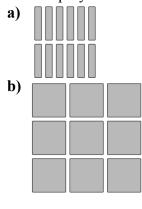
a) $4 + x + 1 + 5x + 1$	b) $-3y^2 + 3y - 2$
c) $2x^2 + 8 - 11 - 4x^2 + 5x^2$	d) $3y + 7y^2 + 1 - y - 2y - 3y^2$

- **3.** Simplify each polynomial.
 - a) 7d-2d+1-6c) -4+2a+7-4ab) -5-3-k-5kd) 3p-6-4p+6
- 4. Simplify each polynomial. a) $3a^2 - 2a - 4 + 2a - 3a^2 + 5$ c) $d^2 + 3d + 1 + 4d^2 + 2$ b) $7z - z^2 + 3 + z^2 - 7$ d) $-6x^2 + 10x - 4 + 4 - 12x - 7x^2$

5. Identify the equivalent polynomials. Justify your responses.

a) $-5y^2 - 3y - 4$	b) $10x - 1$
c) $1 + x - x^2$	d) $2y^2 - 4 - 16 - 7y^2 - 3y + 16$ f) $5x^2 + 7 + 4x - 6x^2 - 6 - x - 2x$
e) $-7 + 5x - 7x - 8 + 14 + 12x$	f) $5x^2 + 7 + 4x - 6x^2 - 6 - x - 2x$

6. Write a polynomial to represent the perimeter of each rectangle.



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Master 5.25 Extra Practice Sample Answers					
Extra Practice 1 – Master 5.19	d) $4y^2 + 1$				
Lesson 5.1 1. $2m^2 + 1, -4x, 0.25y^2$	3. a) $5d-5$ b) $-8-6k$ c) $-2a+3$ d) $-p$				
 2. a) coefficient –8; variable <i>y</i>; degree 1; no constant term b) no coefficient; no variable; degree 0; 	4. a) 1b) $7z - 4$ c) $5d^2 + 3d + 3$ d) $-13x^2 - 2x$				
 c) no coefficients 12 c) coefficients -2, -1; variable b; degree 2; constant term 10 d) coefficient -1; variable b; degree 1; 	 a and d; b and e; c and f; each has the same terms with the same coefficients, variables raised to the same exponent. 				
constant term –4	6. a) 4x + 12 b) 12x				
3. a) monomial c) trinomialb) trinomial d) binomial	Extra Practice 3 – Master 5.21				
4. a and b; e and d; c and f	Lesson 5.3 1. a) 2 <i>h</i> + 4				
5. a) b)					
c)	b) $-3a^2 + 4a$				
d) () () () () () () () () () () () () ()					
6. Answers will vary. a) $3m + 4$ b) $-2y^2 + 5y - 1$	c) $2y^2 + 4y + 8$				
Extra Practice 2 – Master 5.20					
 Lesson 5.2 16w², 3w², -w²; like terms have the same variable raised to the same exponent. 	d) $2 - y - 2y^2$				
2. a) $6x + 6$					
b) $-3y^2 + 3y - 2$ c) $3x^2 - 3$	2. a) $3x - 3$ b) $2b^2$				
	c) $-6y^2 + 8y$ 3. a) $-5x - 3$ b) $-4x^2 - 4$				
	5. a) $-5x - 5$ b) $-4x - 4$ c) $-6x$ d) $x^2 + 2$				

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