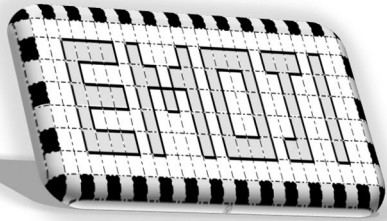


DEFINITIONS
EXPONENT RULES
FREEBIE



Name: _____ Period: _____ Date: _____

Exponent Rules - Definitions

Simplify each expression. Find the simplified form in the Answer Bank. When you find a match, place the question number next to the color. Color the picture accordingly to reveal the mystery picture!

1. $x^5 \cdot x^3$	2. x^0	3. $(x^3)^5$	4. $\frac{x^{12}}{x^2}$
5. $x \cdot x^5$	6. $(xy)^5$	7. x^{-6}	8. $x^7 \cdot x^2$
9. $(x^7)^2$	10. $\frac{x^7}{x^2}$	11. x^{-1}	12. $x \cdot x^2 \cdot x^3 \cdot x^5$

Answer Bank:

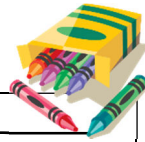
Red Qs: _____	Yellow Qs: _____	Black Qs: _____	Blue Qs: _____
x^{14}	1	x^{10}	$\frac{1}{x^6}$
xy^5	x^{11}	x^5y^5	x^8
x^{15}	x^9	$\frac{1}{6x}$	$\frac{1}{x}$
x^{30}	$-6x$	x^5	x^6

Color RED & Color ORANGE



1	5	7		5	7	3	3	9	1	5	7	11	7	
11		5	1	7	2	8	12	12	8	1	5		5	11
1	5	7	11	9	3	3	9	9	3	9	7	11	1	7
	1	7	3	9	3	9	3	9	3	9	9	1	7	
1	5	8	12	8	2	12	8	2	12	8	2	12	5	11
7	11	2	4	6	10	4	6	10	6	4	4	8	11	5
1		5	10	10			4			10	4	1	5	7
7	11	1	4							10		1	7	
5	7	11	6							10	11	5	1	
	1	5	4							4	7	1		
7	11	1	10							6	5	1	7	
5	7		6	10						10	4	11		1
11	1	5	4	6	10				10	4	6	5	7	11
	7	11	1	9	3	3	9	3	9	3	1	5	7	5
5	7	4	6	10	6		3		6	4	6	10	1	7
















Answer Bank:



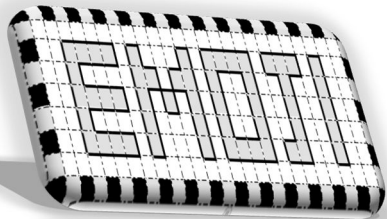
Color: _____ Qs: _____	Color: _____ Qs: _____	Color: _____ Qs: _____	Color: _____ Qs: _____
x^{14}	1	x^{10}	$\frac{1}{x^6}$
xy^5	x^{11}	x^5y^5	x^8
x^{15}	x^9	$\frac{1}{6x}$	$\frac{1}{x}$
x^{30}	$-6x$	x^5	x^6

Color  RED & Color  ORANGE

1	5	7		5	7	3	3	9	1	5	7	11	7	
11		5	1	7	2	8	12	12	8	1	5		5	11
1	5	7	11	9	3	3	9	9	3	9	7	11	1	7
	1	7	3	9	3	9	3	9	3	9	9	1	7	
1	5	8	12	8	2	12	8	2	12	8	2	12	5	11
7	11	2	4	6	10	4	6	10	6	4	4	8	11	5
1		5	10	10			4			10	4	1	5	7
7	11	1	4							10		1	7	
5	7	11	6							10	11	5	1	
	1	5	4							4	7	1		
7	11	1	10							6	5	1	7	
5	7		6	10						10	4	11		1
11	1	5	4	6	10				10	4	6	5	7	11
	7	11	1	9	3	3	9	3	9	3	1	5	7	5
5	7	4	6	10	6		3		6	4	6	10	1	7

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Exponent Rules - Definitions

ANSWER KEY


Simplify each expressions. Find the simplified form in the Answer Bank. When you find a match, place the question number next to the color. Color the picture accordingly to reveal the mystery picture!

1. $x^5 \cdot x^3$ x^8	2. x^0 1	3. $(x^3)^5$ x^{15}	4. $\frac{x^{12}}{x^2}$ x^{10}
5. $x \cdot x^5$ x^6	6. $(xy)^5$ x^5y^5	7. x^{-6} $\frac{1}{x^6}$	8. $x^7 \cdot x^2$ x^9
9. $(x^7)^2$ x^{14}	10. $\frac{x^7}{x^2}$ x^5	11. x^{-1} $\frac{1}{x}$	12. $x \cdot x^2 \cdot x^3 \cdot x^5$ x^{11}

ANSWER KEY

Answer Bank:

Qs: <u>Red</u> 3, 9	Qs: <u>Yellow</u> 2, 8, 12	Qs: <u>Black</u> 4, 6, 10	Qs: <u>Blue</u> 1, 5, 7, 11
x^{14}	1	x^{10}	$\frac{1}{x^6}$
xy^5	x^{11}	x^5y^5	x^8
x^{15}	x^9	$\frac{1}{6x}$	$\frac{1}{x}$
x^{30}	$-6x$	x^5	x^6

Color  RED & Color  ORANGE

The grid puzzle consists of a 15x15 grid. The central area is a white duck shape. The duck's body is white, its eyes are black with white pupils, and its beak is orange. The duck is surrounded by blue cells containing numbers. Some cells are colored red, yellow, or black. Red heart icons are placed in specific cells. The numbers in the grid are: Row 1: 1, 5, 7, heart, 5, 7, 3, 3, 9, 1, 5, 7, 11, 7, heart; Row 2: 11, heart, 5, 1, 7, 2, 8, 12, 12, 8, 1, 5, heart, 5, 11; Row 3: 1, 5, 7, 11, 9, 3, 3, 9, 9, 3, 9, 7, 11, 1, 7; Row 4: heart, 1, 7, 3, 9, 3, 9, 3, 9, 3, 9, 9, 1, 7, heart; Row 5: 1, 5, 8, 12, 8, 2, 12, 8, 2, 12, 8, 2, 12, 5, 11; Row 6: 7, 11, 2, 4, 6, 10, 4, 6, 10, 6, 4, 4, 8, 11, 5; Row 7: 1, heart, 5, 10, 10, [empty], [empty], 4, [empty], [empty], 10, 4, 1, 5, 7; Row 8: 7, 11, 1, 4, [empty], [empty], [empty], [empty], [empty], [empty], [empty], 10, heart, 1, 7; Row 9: 5, 7, 11, 6, [empty], [empty], [empty], [empty], [empty], [empty], [empty], 10, 11, 5, 1; Row 10: heart, 1, 5, 4, [empty], [empty], [empty], [empty], [empty], [empty], [empty], 4, 7, 1, heart; Row 11: 7, 11, 1, 10, [empty], [empty], [empty], [empty], [empty], [empty], [empty], 6, 5, 1, 7; Row 12: 5, 7, heart, 6, 10, [empty], [empty], [empty], [empty], [empty], [empty], 10, 4, 11, heart, 1; Row 13: 11, 1, 5, 4, 6, 10, [empty], [empty], [empty], [empty], [empty], 10, 4, 6, 5, 7, 11; Row 14: heart, 7, 11, 1, 9, 3, 3, 9, 3, 9, 3, 1, 5, 7, 5; Row 15: 5, 7, 4, 6, 10, 6, [empty], 3, [empty], [empty], 6, 4, 6, 10, 1, 7.



Name: _____ Period: _____ Date: _____

Exponent Rules – Definitions

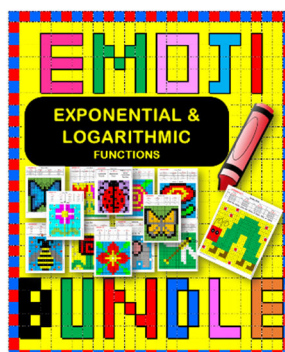
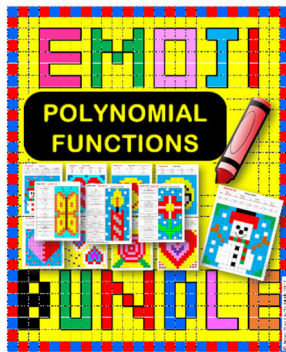
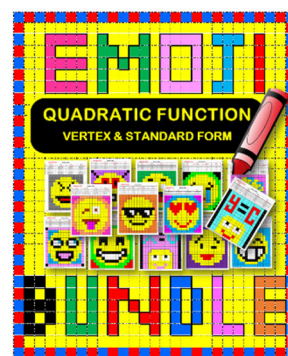
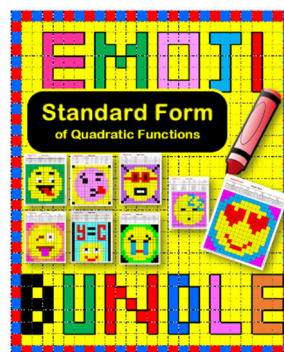
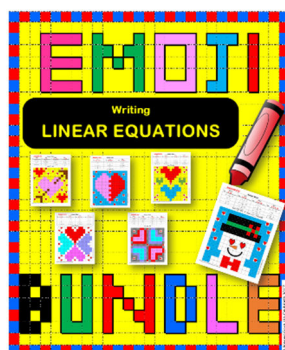
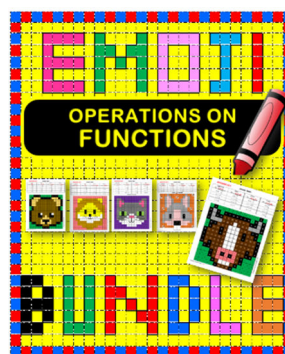
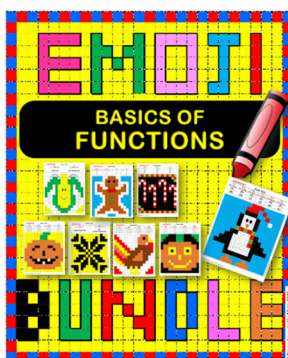
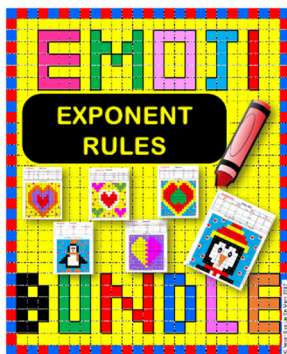
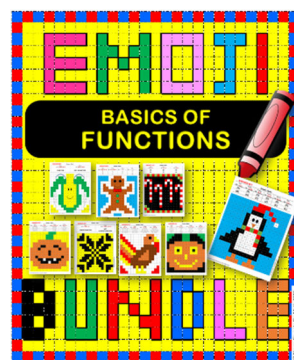
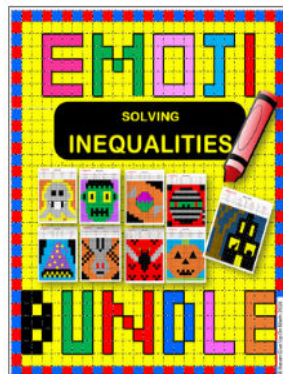
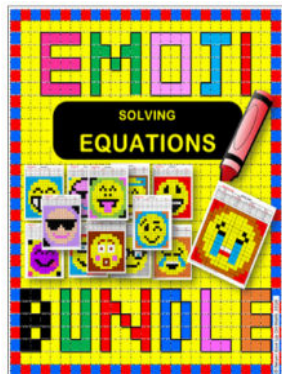
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x^8	1	x^{15}	x^{10}
5. $x \cdot x^5$	6. $(xy)^5$	7. x^{-6}	8. $x^7 \cdot x^2$
x^6	$x^5 y^5$	$\frac{1}{x^6}$	x^9
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x^{14}	x^5	$\frac{1}{x}$	x^{11}

Exponent Rules – Definitions

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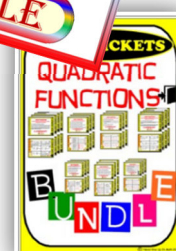
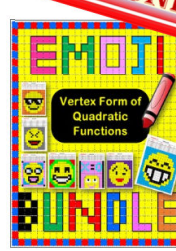
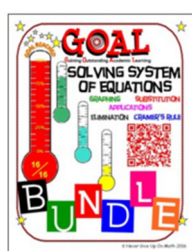
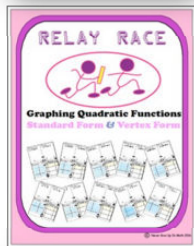
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