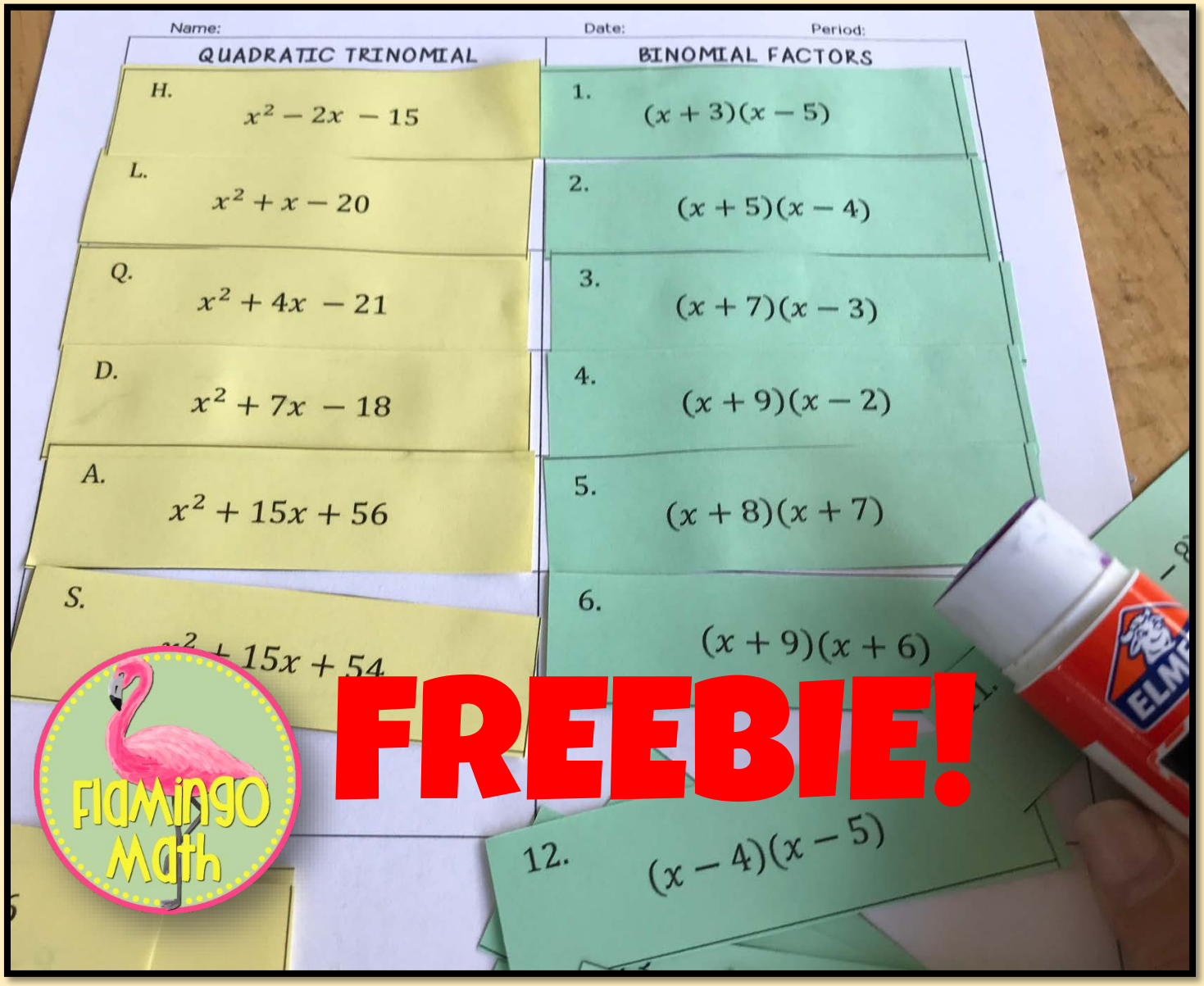

Mix and Match Factors Activity

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MIX & MATCH FACTORS ACTIVITY

There are 40 cards in this activity. Students will determine the product of two binomials or find the factors of a polynomial. The activity is meant for Algebra students of all levels.

Teaching Suggestions:

- Use the set as an open sort or closed sort in groups
- Use the cards as a relay activity
- Use the set as a review prior to assessing students
- Use as a sort and match in groups with the recording sheet.
- Use as a glue down activity with the student sheets provided.

Please visit my store for more engaging task card activities.

FACTORS - Sort and Match

In this activity, students will determine the product of two binomials or find the factors of a polynomial. The activity is meant for Algebra students of all levels. There is a student recording sheet and a sheet to use as a glue down type of activity for differentiation.

TEACHER DIRECTIONS:
Create the two sets of twenty cards on different colors of card stock. Cut them out and laminate each set. If you use the cards in a relay race setting, you will need six small paper lunch-size bags. Label each bag with a large permanent marker as indicated below:

OPEN SORT:
You can have students create **Open Sorts**. Students work in groups to determine how to sort the cards based on characteristics that they choose. When students create categories, recommend that they create categories that will have at least 3 cards in each, when possible. Then, supply some blank cards and have students create an additional card or two for each category. This will let you know that the group can demonstrate an understanding of the characteristics they have named.

CLOSED SORT:
In a **Closed Sort**, the teacher determines the categories**.** Here are several suggestions for ways students can sort the set.

1. positive constant,
2. negative constant,
3. difference of two squares
4. perfect square trinomials
5. positive linear term
6. negative linear term

KEY:

1. S	6. C	11. G	16. A
2. Q	7. K	12. D	17. H
3. J	8. M	13. L	18. F
4. R	9. I	14. P	19. B
5. O	10. E	15. N	20. T

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Mix and Match Factors

Names _____

Date _____Period _____ Score _____

FACTORS	POLYNOMIAL	FACTORS	POLYNOMIAL
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

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Name: Date: Period:

Quadratic Trinomial	Binomial Factors

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QUADRATIC TRINOMIAL	BINOMIAL FACTORS

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1. $(x+3)(x-5)$	2. $(x+5)(x-4)$
3. $(x+7)(x-3)$	4. $(x+9)(x-2)$
5. $(x+8)(x+7)$	6. $(x+9)(x+6)$
7. $(x+7)(x+5)$	8. $(x+3)(x+8)$
9. $(x-3)(x-8)$	10. $(x-9)(x-2)$
11. $(x-7)(x-8)$	12. $(x-4)(x-5)$
13. $(x+8)(x-8)$	14. $(x+5)(x-5)$
15. $(x+4)(x-4)$	16. $(x+3)(x-3)$
17. $(x+6)^2$	18. $(x-7)^2$
19. $(x-5)^2$	20. $(x-8)^2$

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H. $x^2 + 12x + 36$	L. $x^2 - 64$
Q. $x^2 + x - 20$	D. $x^2 - 9x + 20$
A. $x^2 - 9$	S. $x^2 - 2x - 15$
K. $x^2 + 12x + 35$	M. $x^2 + 11x + 24$
P. $x^2 - 25$	E. $x^2 - 11x + 18$
G. $x^2 - 15x + 56$	B. $x^2 - 10x + 25$
R. $x^2 + 7x - 18$	I. $x^2 - 11x + 24$
N. $x^2 - 16$	T. $x^2 - 16x + 64$
C. $x^2 + 15x + 54$	O. $x^2 + 15x + 56$
F. $x^2 - 14x + 49$	J. $x^2 + 4x - 21$

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