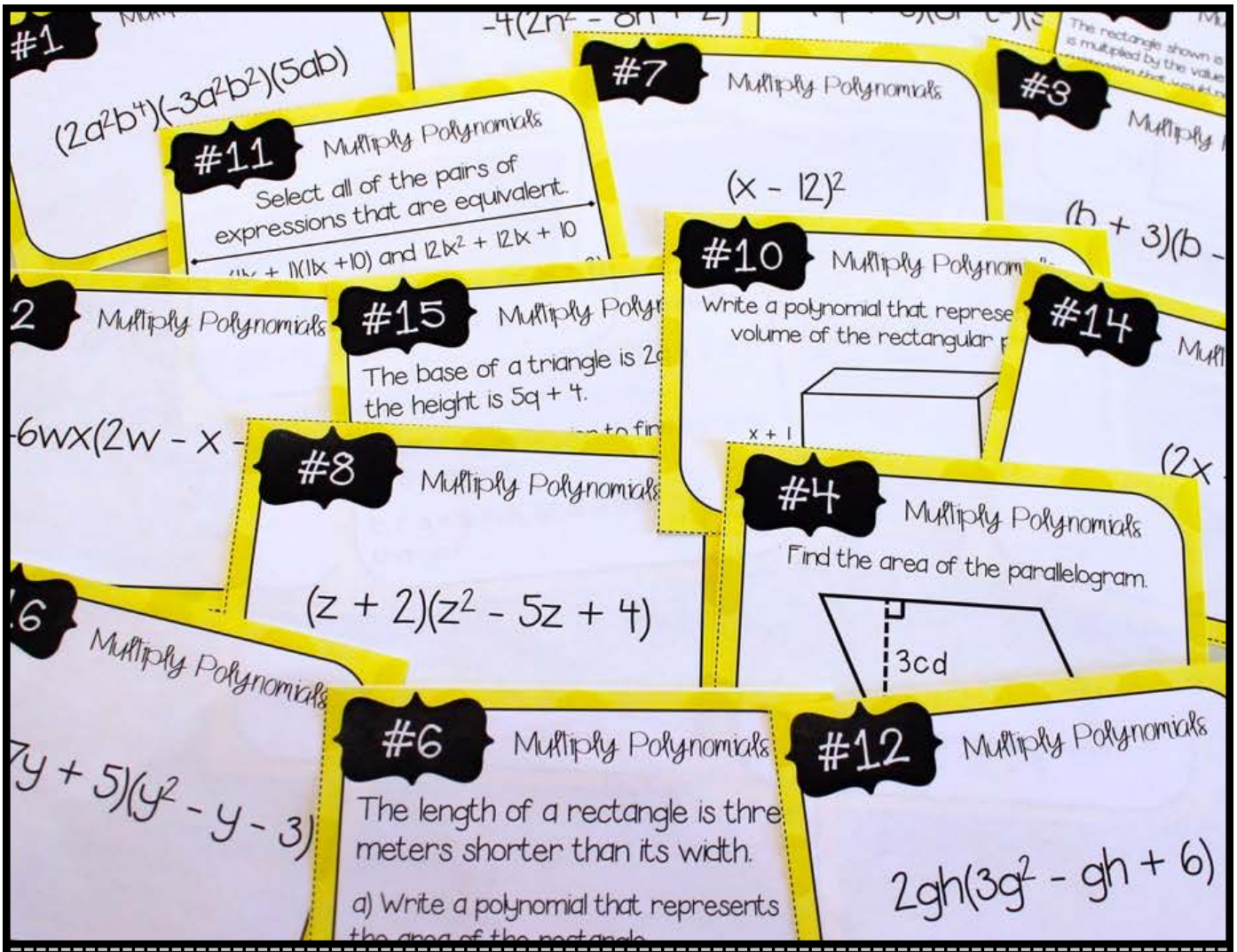


MRS.D'S CLASSROOM

Multiply Polynomials

differentiated

task cards

A few notes ...

Following instruction on multiplying polynomials, these cards are a great way for students to practice the skill at their personal learning level as the task cards are differentiated. A student recording sheet and teacher answer key are included.

{Durability}

Print the cards on card stock and laminate for durability. This will allow you to use them year after year. I keep all my task cards, recording sheets and answer keys in a three-ring binder using 4x6 photo pages for the cards and sheet protectors for the recording sheets and answer keys to all be in one place.

{Using in the classroom}

These cards can be used in several ways. Listed below are a few of the ways I have used them in my own classroom.

1) Math Center - Students individually complete a recording sheet.

2) Group Activity - Splitting the students into groups, I give each group a full set of cards and a recording sheet. Students work together to answer the questions on the cards. I instruct them that I must hear discussions to agree on an answer and there isn't a person just telling everyone else the answers.

3) Entrance Ticket - As students enter the door, I hand them an equation card and tell them to solve it, then check it with the answer key. This is a great time to differentiate and hand cards specifically to students that need additional rigor. This also works as an exit activity and gives you a quick assessment to determine if more instruction is needed.

Even though students have seen them during the school year, I usually pull this set of cards out close to state testing time and use them as I explained in #3. It is an awesome, quick assessment for you to see how in-depth you need to go when reviewing.

{Differentiation}

This activity can quickly be differentiated by assigning cards # 1-8 to those students needing work with the basics of multiplying polynomials. This is my Level A group. Those students needing a challenge work with cards #9- 16. This is my Level B group that will target the skill of multiplying polynomials but at a higher level of critical thinking. Both levels of cards include applied problems. The differentiation of these cards is further explained in the preview.

While this set of task cards was made to reach individual levels of learners in two groups, that's not to say that the entire set can't be completed by a student. By completing cards 1 through 16, students will partake in scaffolded learning as the cards gradually become more rigorous.

#1

Multiply Polynomials

$(2a^2b^4)(-3a^2b^2)(5ab)$

#2

Multiply Polynomials

$-6wx(2w - x - 1)$

#3

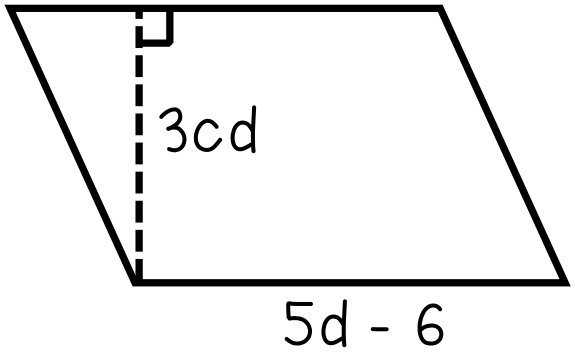
Multiply Polynomials

$(b + 3)(b - 4)$

#4

Multiply Polynomials

Find the area of the parallelogram.



#5

Multiply Polynomials

$$-4(2n^2 - 8n + 2)$$

#6

Multiply Polynomials

The length of a rectangle is three meters shorter than its width.

a) Write a polynomial that represents the area of the rectangle.

b) Find the area of the rectangle when the width is 6 meters.

#7

Multiply Polynomials

$$(x - 12)^2$$

#8

Multiply Polynomials

$$(z + 2)(z^2 - 5z + 4)$$

#9

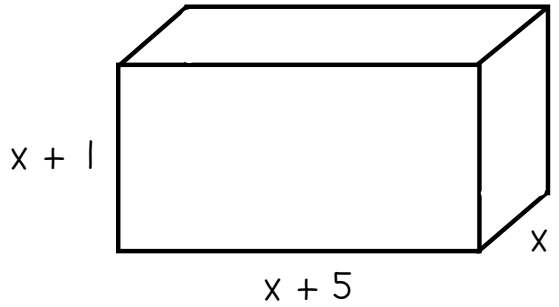
Multiply Polynomials

$$\left(\frac{1}{4}r^2s\right)(8r^3t^2)(s^4t^6)$$

#10

Multiply Polynomials

Write a polynomial that represents the volume of the rectangular prism.



#11

Multiply Polynomials

Select all of the pairs of expressions that are equivalent.

a. $(11x + 1)(11x + 10)$ and $121x^2 + 121x + 10$

b. $9x^3 + 12x^2 + 4$ and $(3x^2 + 2x)(3x + 2)$

c. $(3x - 4)^2$ and $9x^2 - 24x + 16$

#12

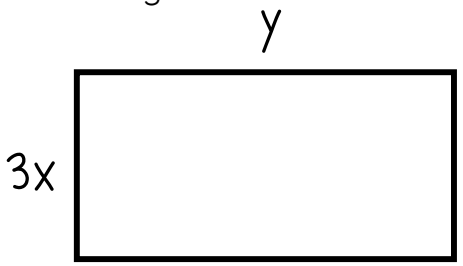
Multiply Polynomials

$$2gh(3g^2 - gh + 6)$$

#13

Multiply Polynomials

The rectangle shown is enlarged such that each side is multiplied by the value of the width, 3x. Write the expression that would represent the perimeter of the enlarged rectangle.



#14

Multiply Polynomials

$$(2x - 1)^3$$

#15

Multiply Polynomials

The base of a triangle is $2q + 2$ and the height is $5q + 4$.

a. Write an expression to find the area of the triangle.

b. If $q = \frac{1}{2}$ inch, what is the area of the triangle?

#16

Multiply Polynomials

$$(y^2 - 7y + 5)(y^2 - y - 3)$$

Multiply Polynomials

{recording sheet}

Name:

Date:

1)	2)	3)	4)
5)	6)	7)	8)
9)	10)	11)	12)
13)	14)	15)	16)

Multiply Polynomials
{recording sheet}

Answer Key

1) $-30a^5b^7$	2) $-12w^2x + 6wx^2 + 6wx$	3) $b^2 - b - 12$	4) $15cd^2 - 18cd$
5) $-8n^2 + 32n - 8$	6) a) $x^2 - 3x$ b) $18m^2$	7) $x^2 - 24x + 144$	8) $z^3 - 3z^2 - 6z + 8$
9) $2r^5s^5t^8$	10) $x^3 + 6x^2 + 5x$	11) A & C	12) $6g^3h - 2g^2h^2 + 12gh$
13) $18x^2 + 6xy$	14) $8x^3 - 12x^2 + 6x - 1$	15) a) $5q^2 + 9q + 4$ b) $9\frac{3}{4}$ in^2	16) $y^4 - 8y^3 + 9y^2 + 16y - 15$

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