Objectives:

- Students will divide positive integers from the multiplication table without remainders, as evidenced by them passing one-minute quizzes.
- Students will represent polynomials using Algeblocks, as evidenced by them completing a warm-up worksheet where they do so.
- Students will divide polynomials using Algeblocks and Quadrant Mats, as evidenced by them completing an in-class lab and a homework assignment where they do so.

Materials:

- "Minute Quiz 4-8" for each student
- "Handouts 4-8" for each student (which includes a warm-up, lab, and homework).
- "Lab 4-8" transparency
- · Algeblocks class sets

Do Now:

- Park stuff
- Work on warm-up
- Get ready for minute quiz

Homework:

- Homework #4-8
- 6 hours of ALEKS due today

Before Bell Write the agenda and the do now on the board. As students enter the of give them a copy of the warm-up, and direct them to follow the directions 10 min MINUTE QUIZ, WARM-UPS, ATTENDANCE, AND HOMEWO Minute Quiz and Warm-up When the bell rings, quickly go around and put the minute quiz on each at the same time and give everyone one working on the quiz, pass out new warm-up & notes checkers for the woon the warm-up when they're done with the minute quiz. After the minute collect the minute quizzes and give them to the teacher's aide (TA) to grate the domework will be students work on the warm-up, take attendance and have the TA of homework checkers. 5 min ANNOUNCEMENTS Explain to students that you have a couple announcements to make. 6 Hours of ALEKS due Today Ask students, The first announcement has to do with ALEKS. This week, do you need to have by the end of today? Point to the homework assigns answer. [Six.]	
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Unit Calendar Say: The second announcement is to remind you what we've been doing calendar transparency on the overhead so that students can see it. Poir can see from the title, we've been talking about polynomials. We first into Algeblocks to represent polynomials. Point to the first lesson of the unit. and multiplied polynomials. Point to each lesson as you mention these of learn how to divide polynomials, and that will be the end of the unit. So, we'll have a practice test and review. On Friday, we'll have the unit test. [Friday.] What are we doing on Wednesday/Thursday? [Review & practice test and review.]	to the title and say, As you oduced how to use Then, we added, subtracted, perations. Today, we will n Wednesday/Thursday, When is the unit test?
30 min ALGEBLOCKS LAB: DIVIDING POLYNOMIA	

Establishing Norms

Remind students of the established norms for using the Algeblocks. Make sure students understand that Algeblocks are tools and not toys. Students who are misusing the Algeblocks in any way, especially throwing them, will have to sit alone away from the rest of the class and complete the work without the blocks. If misuse occurs a second time, the student will have to work without blocks for the rest of the unit.

Free Time with the Algeblocks

Explain that you'll give students two minutes to fiddle with the blocks, and that you will count down at the end of the two minutes. When you count down, all the blocks will need to be back in their containers. Pass out the containers of Algeblocks so that two students share a set. Give students two minutes to play with the Algeblocks.

Lab Worksheet: Dividing Polynomials

Go through Lab 4-8 to teach how to divide using Algeblocks. You have a transparency of this lab worksheet.

30 min

ALEKS

Laptops Fixed

In the past, many keys from the laptops went missing. But, over Spring break, all the laptops were fixed. Explain to students that all the keys are back. Yay! But, we will continue checking in the laptops before putting them away.

Getting Laptops

After all Algeblocks have been put away, dismiss students by column to get laptops for ALEKS. While students work on ALEKS, have the TA go around and stamp homework & notes checkers. For today's notes points, students must've completed the Algeblocks lab.

5 min

CLEAN UP

Students must check the laptops with the teacher or the TA before putting them away. After putting the laptops away, students should pack up, sit in their seats, and wait to be dismissed by the teacher (not by the bell).

Solve the following division problems. You have exactly one minute!

$$6 \div 2 =$$

$$60 \div 6 =$$

Numeracy Minute Quiz 4-8 A

Date:

Period:

Solve the following division problems. You have exactly one minute!

$$32 \div 8 =$$

$$2 \div 2 =$$

$$10 \div 1 =$$

$$32 \div 4 =$$

$$60 \div 6 =$$

Numeracy Minute Quiz 4-8 A Name:

Date:

Period:

Solve the following division problems. You have exactly one minute!

$$45 \div 9 =$$

$$5 \div 5 =$$

$$6 \div 2 =$$

$$8 \div 4 =$$

$$2 \div 2 =$$

$$32 \div 4 =$$

$$60 \div 6 =$$

Solve the following division problems. You have exactly one minute!

$$36 \div 3 =$$

$$9 \div 3 =$$

Numeracy Minute Quiz 4-8 B

Date:

Period:

Solve the following division problems. You have exactly one minute!

$$42 \div 7 =$$

$$36 \div 3 =$$

$$4 \div 4 =$$

$$18 \div 6 =$$

$$36 \div 4 =$$

$$9 \div 3 =$$

$$24 \div 2 =$$

Numeracy Minute Quiz 4-8 B Name:

Date:

Period:

Solve the following division problems. You have exactly one minute!

$$36 \div 3 =$$

$$49 \div 7 =$$

$$4 \div 4 =$$

$$36 \div 4 =$$

$$9 \div 3 =$$

Solve the following division problems. You have exactly one minute!

$$4 \div 4 =$$

$$80 \div 8 =$$

$$36 \div 4 =$$

Numeracy Minute Quiz 4-8 C

Date:

Period:

Solve the following division problems. You have exactly one minute!

$$4 \div 4 =$$

$$80 \div 8 =$$

$$36 \div 4 =$$

$$7 \div 1 =$$

$$36 \div 4 =$$

Numeracy Minute Quiz 4-8 C Name:

Date:

Period:

Solve the following division problems. You have exactly one minute!

$$4 \div 4 =$$

$$80 \div 8 =$$

$$6 \div 6 =$$

$$36 \div 4 =$$

$$33 \div 3 =$$

$$90 \div 9 =$$

$$36 \div 4 =$$

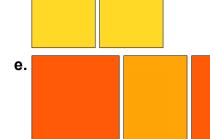
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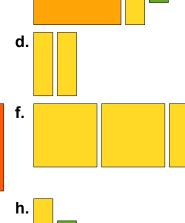
Match each polynomial with the set of Algeblocks that represent it.

- 1. $2x^2$
- **2**. 2x
- 3. $2x^2 + x$
- **4.** $y^2 + xy + y$
- **5.** $x^2 + x$
- **6.** $x^2 + 2x$
- **7.** x + 1
- **8.** xy + x + 1 _____

a.







Numeracy Homework 4-8 – Dividing Polynomials Name: Date:

Period:

Answer the following questions.

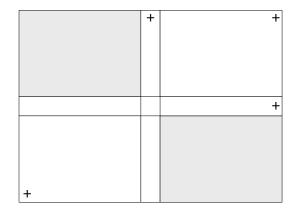
1. How many hours of ALEKS do you need by Friday? _____

g.

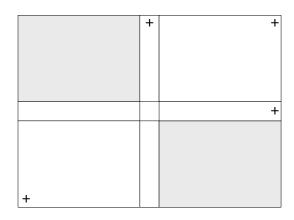
- 2. When is the unit 4 comprehensive test?
- 3. When is STAR testing?

Divide the following polynomials using Algeblocks. Sketch (draw) and write the simplified polynomial.

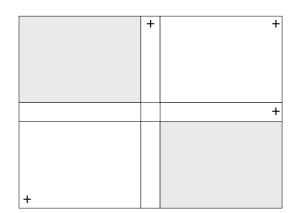
4. $(4y - 6y^2) \div (2 - 3y)$

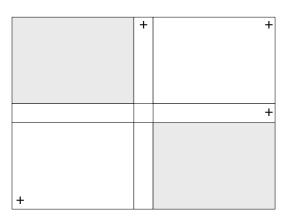


5. $(3xy + 9x) \div (y + 3)$

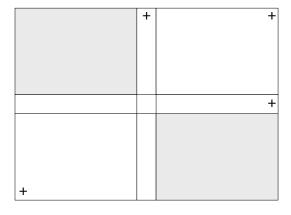


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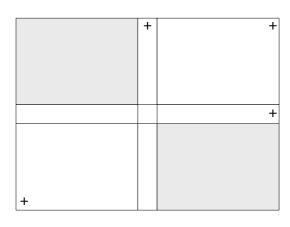




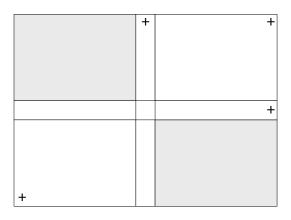
3.
$$(6x^2) \div (-2x)$$



4.
$$(6xy) \div (3y)$$



5.
$$(6xy + 9y) \div (2x + 3)$$



6.
$$(4x^2 + 4x) \div (x + 1)$$

