

# **Math Virtual Learning**

# **College Prep Algebra**

May 12, 2020



College Prep Algebra Lesson: May 12, 2020

#### **Objective/Learning Target:**

- I can add, subtract, multiply, divide, and simplify rational expressions
  - I can solve a rational equation

#### On April 28, 2020 you started Rational Expressions and Rational Equations.

And here you are, two weeks later—you have all the tools you need to

- Add, subtract, multiply, divide, and simplify rational expressions
  - Solve a rational equation

Identify the skills you feel you need more practice on, then practice those skills using the practice problems on the following pages.

# Practice: I can simplify rational expressions Refresh my memory: <u>April 28 Lesson</u>

6

10

2 12

10

#### • BOOKS NEVER WRITTEN •

8

50 Years in the Navy by

8 12 10 4

8 11

7 2 11 6

ABOVE ARE THE TITLES OF THREE "BOOKS NEVER WRITTEN." TO DECODE THE NAMES OF THEIR AUTHORS:

Simplify each expression below. Find your answer and notice the letter next to it. Each time the exercise number appears in the code, write this letter above it.

Answers for exercises 1-6:		Answers for exercises 7-12:	
$\bigcirc -\frac{x-4}{x-1}$	$ (A) \ \frac{3(x-6)}{2x+3} $	$  ( ) - \frac{a+7}{7a} $	$\bigotimes \frac{2(a+3b)}{3(a-b)}$
$\bigcirc \frac{5}{3(x+5)}$	(R) −(x + 8)	$\bigcirc \frac{2(a-3b)}{3(a+b)}$	$\bigcirc \frac{a+2b}{ab}$
$(\overline{)} \frac{x-3}{2}$	$\bigotimes \frac{\mathbf{x}(\mathbf{x}-7)}{\mathbf{x}+2}$	$\bigcirc -\frac{5a^3}{2b^2}$	(s) $\frac{5a(a+1)}{b^2(2a+1)}$
$\bigcirc \frac{\mathbf{x}(\mathbf{x}-7)}{\mathbf{x}-1}$	$\bigcirc -\frac{\mathbf{x}-4}{\mathbf{x}^2}$	$\bigcirc \frac{a^2}{a+8b}$	$\bigcirc -\frac{a-7}{7ab}$

ALGEBRA WITH PIZZAZZI

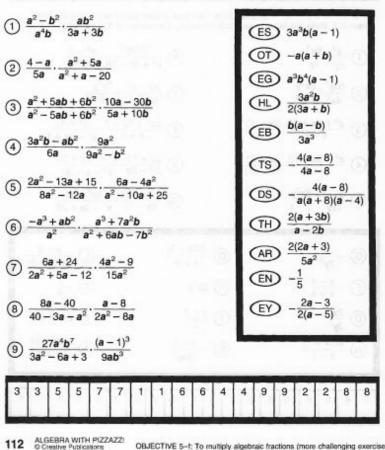
OBJECTIVE 5-d: To simplify algebraic fractions

#### Practice: I can multiply rational expressions

**Refresh** my memory: April 29 Lesson

#### Why Are Ancient Stories Like Feet?

Express each product below in simplest form. Find your answer in the answer column and notice the two letters next to it. Write these letters in the two boxes at the bottom of the page that contain the number of that exercise



OBJECTIVE 5-1: To multiply algebraic fractions (more challenging exercises)

## THEY ARE LIKE LEGENDS

# "LEGENDS" OR "LEG-ENDS"

Practice: I can divide rational expressions

Refresh my memory: <u>April 30</u> <u>Lesson</u>

Express each quotient below in simplest form. Find your answer in the answer column and notice the letter next to it. Write this letter in each box containing the number of that exercise. (1) $\frac{12m^2n^5}{m+5} \div \frac{3m^3n}{m^2-25}$ (2) $\frac{n^2-9n+20}{6m^7n^2} \div \frac{5n-20}{10mn^2}$ (3) $\frac{m^2}{m^2-7m} \div \frac{1}{m^2-4m-21}$ (4) $\frac{16-2m}{m^2+2m-24} \div \frac{m-8}{3m+18}$ (5) $\frac{12n-36}{9-n^2} \div \frac{8n^5}{n^2+3n}$ (6) $\frac{m^2-n^2}{m^2+2mn+n^2} \div \frac{m^2n-mn^2}{7m^2}$ (7) $\frac{n^2-n-12}{2n^2-15n+18} \div \frac{3n^2-12n}{2n^3-9n^2}$ (8) $\frac{17mn^3}{m^2+2m-35} \div \frac{34m^9n^4}{m^2+7m}$ (9) $\frac{4n^3-25n}{3n^2-16n+5} \div (10n+25)$	$\begin{array}{r llllllllllllllllllllllllllllllllllll$
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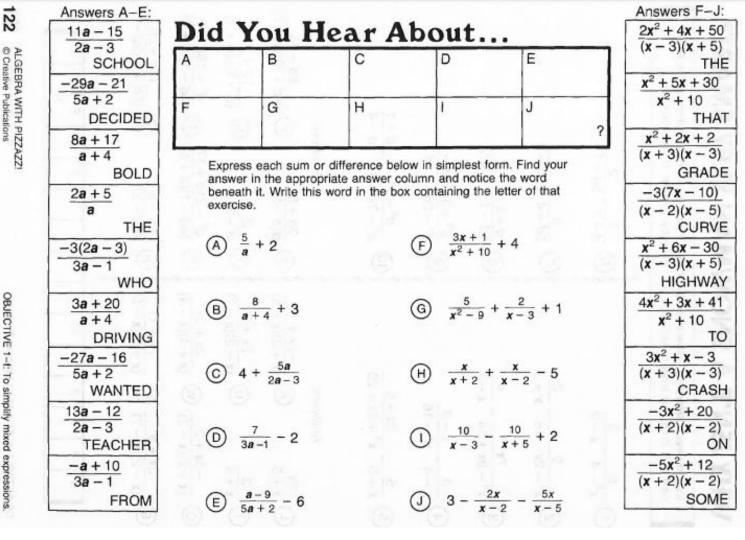
### HE WAS ASSAULTED

### "A-SALTED"

Practice: I can add and subtraction rational expressions.

**Refresh** my memory: May 1 Lesson

OBJECTIVE



# The driving teacher who decided to grade on the curve

#### Practice: I can solve rational equations

**Refresh** my memory: May 7 Lesson and May 8 Lesson

OBJECTIVE 3-h: T (solving a quadratic noitent fractional equation in may be required

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#### What Sound Did the Sheep Hear When Her Sister Exploded? ALGEBRA WITH PIZZAZZI © Creative Publications Solve each equation and find your answer in the rectangle below. Cross out the box that contains your answer. When you finish, write the letters from the remaining boxes in the spaces at the bottom of the page. $(6) \frac{3}{n} + \frac{2}{n-1} = 2$ $\left(1\right)\frac{2}{x+3}+\frac{3}{x+4}=\frac{7}{x^2+7x+12}$ $7 2 = \frac{x}{x+3} - \frac{3}{x-5}$ (2) $\frac{4}{x-5} + \frac{1}{x+2} = \frac{2x+7}{x^2-3x-10}$ (8) $\frac{1}{d-7} + \frac{d}{d-2} = \frac{5}{d^2 - 9d + 14}$ (3) $\frac{a-30}{a^2+4a-21} = \frac{5}{a+7} - \frac{2}{a-3}$ (9) $\frac{x-1}{x+1} - \frac{6}{x-3} = 3$ $(4) \frac{x}{x+4} = \frac{3}{x-1}$ $5\frac{6}{y+2}+\frac{1}{y-2}=1$ UP AH KO MB IG 00 FR YE SI CK SB AM SH $\frac{1}{3}$ , 5 $-2 \left| \frac{1}{4}, -1 \right| = \frac{1}{2}, 3$ 43 $-\frac{1}{2}$ -7, 3 2, 8 -3, 1-9 6, 1 -5, 2 -1

ER

6, -2

# SISBOOMBAH

# Sis-Boom-Bah

Remember you were to CROSS out the box that contained the answer and use the remaining boxes.