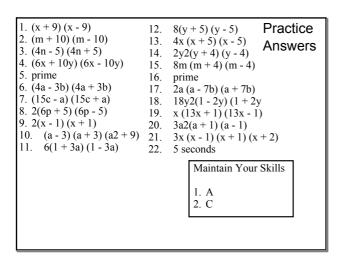
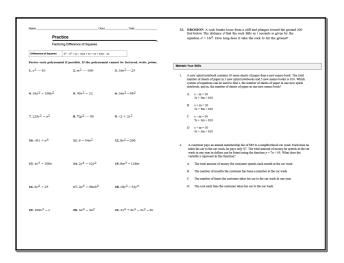


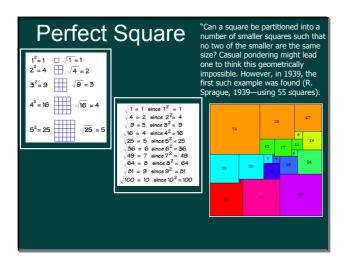
Title Page Warm Up

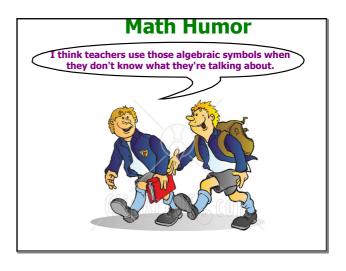




Homework Answers

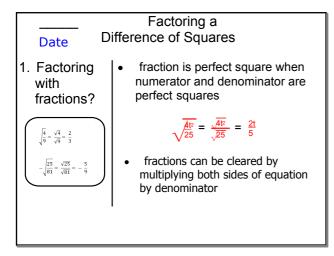
Practice Worksheet

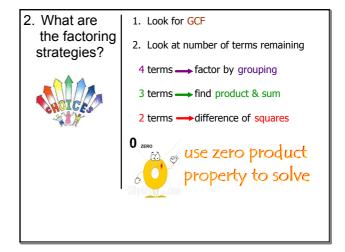




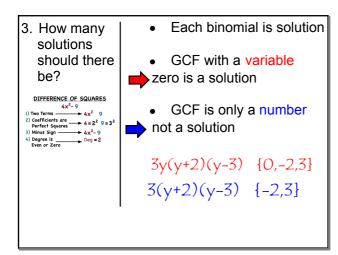
Introduction Math Humor

1





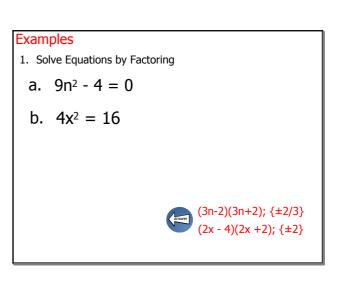
Notes Notes





Notes Find a Friend

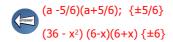




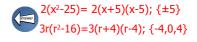
Would You Rather? Examples

2

- 2. Solve Equations by Factoring (fractions)
- a. $a^2 \underline{25} = 0$ 36
- b. $18 \frac{1}{2}x^2 = 0$



- 3. Solve Equations by Factoring (GCF)
 - a. $2x^2 = 50$
 - b. $3r^3 = 48r$



Examples Examples

4. Solve Equation by Factoring (grouping, GCF, difference of squares)

SUPER PROBLEM!

$$5x^3 + 15x^2 - 5x - 15 = 0$$

 $\begin{array}{c} (5x^3 + 15x^2)(-5x-15) \\ 5x^2(x+3) - 5(x+3) \\ (5x^2 - 5)(x+3) \\ 5(x^2 - 1)(x+3) \\ 5(x+1)(x-1)(x+3) \end{array}$

{-3,-1,1}

Examples

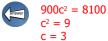
Application

The US Coast Guard must decide how thick of a line to purchase based on it's breaking strength. The basic breaking strength b in pounds for a natural fiber line is determined by the formula below, where c is the circumference of the line in inches.

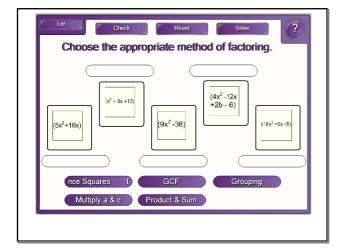
What circumference of natural line would have 8100 pounds of breaking strength?

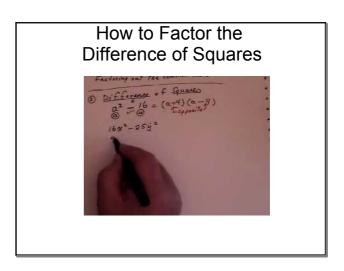






Application





Activity Video

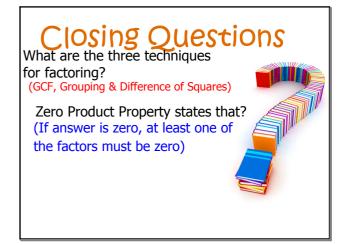


Fun Fact of the Day!

If you were to shave a zebra, you would see that it's skin is also striped!

Practice

Factoring A Difference of Squares Equations Worksheet



Homework Closing Questions

Factoring Differences of Squares.flv