TRANSPARENCY MASTERS

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Can you Unmultiply?

(More commonly known as FACTORING.)

PROCEDURE FOR FACTORING TRINOMIALS

Step 1 Find the factors of the second-degree term, and set up the binomials.

Step 2 Find the factors of the constant term, and consider all possible binomials (mentally). Think of the factors that will form a rectangle.

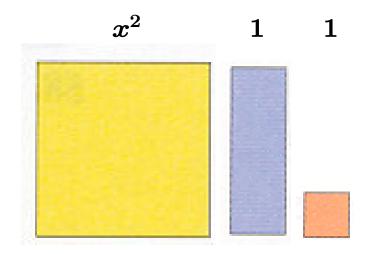
Step 3 Determine the factors that yield the correct middle term. If no pair of factors produces the correct full product, then the trinomial is not factorable using integers.

This factoring approach is called **FOIL**.

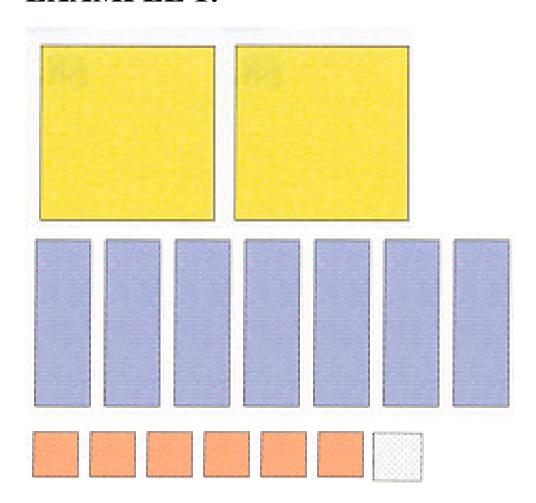
FACTORING USING



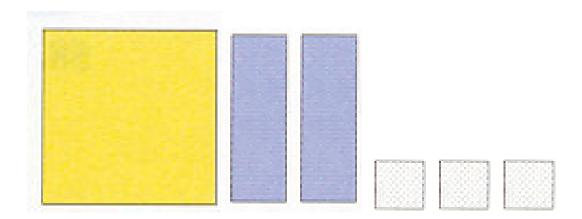
Area of a square with side x is x^2 . Area of a rectangle with sides x and 1 is x. Area of a square with side 1 is 1.



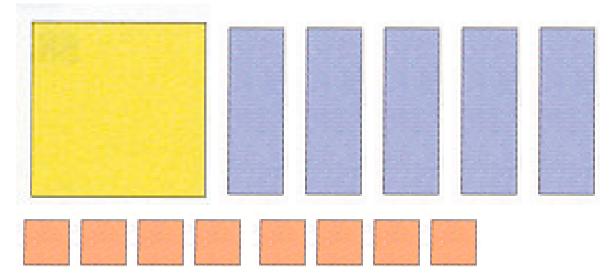
EXAMPLE 1:



EXAMPLE 2a:



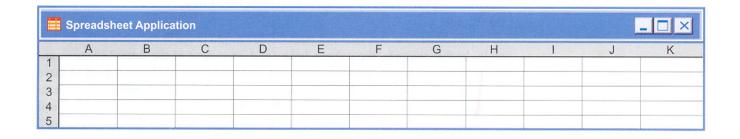
EXAMPLE 2b:

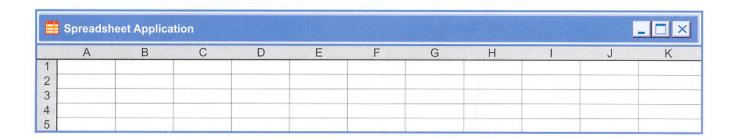


Sample Spreadsheets

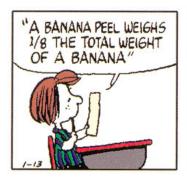








ABANDON SHIPM









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FRACESONS, CICIMOLS, and Percents

To	Fraction	Decimal	Percent
From			
Fraction		Divide the numerator (top)	First change the fraction to
		by the denominator (bottom).	a decimal by carrying out
		Write as a terminating or as a	the division to two decimal
		repeating decimal (bar	places and writing the
		notation).	remainder as a fraction.
			Then move the decimal
			point two places to the
			right, and affix a percent
			symbol.
Terminating	Write the decimal without		Shift the decimal point two
decimal	the decimal point, and		places to the <i>right</i> , and affix
	multiply by the decimal name		a percent symbol.
	of the last digit (rightmost		
	digit).		
Percent	Write as a ratio to 100 and	Shift the decimal point two	
	reduce the fraction. If the	places to the <i>left</i> , and delete	
	percent involves a decimal,	the percent symbol. If the	
	first write the decimal in	percent involves a fraction,	
	fractional form, and then	first write the fraction as	
	multiply by $\frac{1}{100}$. If the	a decimal, and then shift	
	100	the decimal point.	
	percent involves		
	a fraction, delete the percent		
	symbol and multiply by $\frac{1}{100}$.		