Name	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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## Fractions, Simplest Form, and the Greatest Common Factor

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One three-step strategy for simplifying fractions uses the **greatest common factor** (GCF) between the numerator and denominator.

Step 1: Factor the numerator and den			1			
<b>Example:</b> $340 \leftarrow mumerator$ $800 \leftarrow mumerator$	340 2 x 170 (2 x 85) 5 x 17; 2 x 2 x 5 x 17 * (2 x 2 x 5 x 17) * Notice that 340 and share only two 2's an one 5 as factors.   800 2 x 400 (2 x 200) 2 x 100 (2 x 50) 2 x 25 5 x 5 * (2 x 2 x 5 x 2 x 2 x 2 x 5) * Notice that 340 and share only two 2's an one 5 as factors.					
ı ı ı L	The Greatest (	Common Factor (GCF	=) is: 2 x 2 x 5 = 20			
<b>Step 2:</b> Divide each by their greatest o	common factor.	Step 3: Find the sir	mplest form of the fraction.			
340 ÷20 = 17 800 ÷20 = 40		<u>17</u> 40				

Try It! Simplify each fraction by applying the three-step procedure using the greatest common factor.

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1. $\frac{240}{320}$	<b>2.</b> 366 480	<b>3.</b> <u>123</u> 141
<sup>1</sup> 240:	366:	123:
320:	i 480: i	1 141: 1
GCF:	GCF:	GCF:
ı +	، د ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	' 
<b>4.</b> 228 312	<b>5.</b> <u>180</u> 366	6. 255 345
1 1 228:	i 180:	255:
312:	366:	345: I
I GCF:	I GCF: I	GCF:
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