$12ab^2c$

Focus:

- 1. To be able to determine prime factors, greatest common factors and least common multiples of whole numbers.
- 2. To be able to write polynomials in factored form.

Curricular Competencies:

A2: I can explore, analyze and apply mathematical ideas

Terminology

* amptificant		
The opposite of the distributive property is <u>Factoring</u> .	tactoring	
converts polynomials into their component factors. This is often important for doing more complex		
mathematical operations.		
To factor something means to <u>express</u> as a product.		
When factoring a polynomial, always look for the <u>areatest</u> co	immon Factor (GCF) first.	
GCF		
List the Greatest Common Factors16x²y and 24 x²y³5m²n and 15mn²48	Bab ³ c and 36a ² b ² c ²	

8x²y

5mn

We can do this for polynomials as well:

To do this, find GCF divide GCF from all terms

Write each in factored form.

10y – 20	35a + 10a ²	24m ² n + 16mn ²
10 (y-2)	5a(7+2a)	8mn(3m+2n)
check		
10g-20		
$-28x^2y - 35xy^2$	$3x^2 + 12x - 6$	$x^{5} - x^{4}$
-7xy(4x+5y)	$3(x^{2}+4x-2)$	$\chi^{4}(\chi-1)$

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assignment: p 220 2ac, 4-6, 10, 11