Check Up

1. Write each of $18ab^3$ and $27a^3b$ as the product of their GCF and another monomial factor.

Compare your answers.

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Determine the GCF.

$18ab^3$: $1, 2, 3, 6, 9, 18, a, b, b^2, b^3$

$27a^3b$: $1, 3, 9, 27, a, a^2, a^3, b$

The GCF is $9ab$.

$$\frac{18ab^3}{9ab} = 2b^2 \qquad\qquad \frac{27a^3b}{9ab} = 3a^2$$

$18ab^3 = (9ab)(2b^2)$ and $27a^3b = (9ab)(3a^2)$