

Properties of Exponents: Multiplication

<u>Level 1</u>	<u>Solutions</u>		<u>Level 3</u>	<u>Solutions</u>
$a^2 \bullet a^7$			$g^5 h^5 \bullet g^{10} h^7$	
$b^9 \bullet b^{10}$			$i^9 j^{20} \bullet i^2 j^{-4}$	
$c^{11} \bullet c^{12} \bullet c^2$			$k^4 l^2 \bullet k^4 l^4 \bullet k^2 l^9$	
<u>Level 2</u>	<u>Solutions</u>		<u>Level 4</u>	<u>Solutions</u>
$d^2 \bullet d^{-4}$			$m^3 n^5 o^2 \bullet m^6 n^{-8} o^2$	
$e^9 \bullet e^9 \bullet e$			$p^2 q^3 r^4 \bullet p q r$	
$f^{-10} \bullet f^3$			$s^2 t^{-15} u \bullet t^8 u^{-8} s^{-2}$	

Properties of Exponents: Division

<u>Level 1</u>	<u>Solutions</u>		<u>Level 3</u>	<u>Solutions</u>
$a^7 \div a^2$			$g^5 h^5 / g^{10} h^7$	
$b^{19} \div b^{10}$			$i^9 j^{20} / i^2 j^{-4}$	
$c^{12} \div c^{11}$			$k^4 l^2 / k^4 l^4$	
<u>Level 2</u>	<u>Solutions</u>		<u>Level 4</u>	<u>Solutions</u>
$d^2 \div d^{-4}$			$m^3 n^5 o^2 / m^6 n^{-8} o^2$	
$e^9 \div e^9$			$p^2 q^3 r^4 / p q r$	
$f^{-10} \div f^3$			$s^2 t^{-15} u / t^8 u^{-8} s^{-2}$	