



Fill In The Blanks...



Simplifying Expressions with Brackets/Powers

| Question | Write Each Term Separately to the Power | Simplify Each Term | Answer |
|------------------|--|--|------------------------|
| $(3a)^2$ | $3^2 \times a^2$ | $9 \times a^2$ | $9a^2$ |
| $(6b)^2$ | $6^2 \times b^2$ | $36 \times b^2$ | $36b^2$ |
| $(2b)^3$ | $2^3 \times b^3$ | $8 \times b^3$ | $8b^3$ |
| $(ab)^4$ | $a^4 \times b^4$ | $a^4 \times b^4$ | a^4b^4 |
| $(4a^2)^3$ | $4^3 \times (a^2)^3$ | $64 \times a^6$ | $64a^6$ |
| $(2b^3)^4$ | $2^4 \times (b^3)^4$ | $16 \times b^{12}$ | $16b^{12}$ |
| $(2ab)^4$ | $2^4 \times a^4 \times b^4$ | $16 \times a^4 \times b^4$ | $16a^4b^4$ |
| $(5ab^2)^2$ | $5^2 \times a^2 \times (b^2)^2$ | $25 \times a^2 \times b^4$ | $25a^2b^4$ |
| $(a^2b^3)^3$ | $(a^2)^3 \times (b^3)^3$ | $a^6 \times b^9$ | a^6b^9 |
| $(3a^2b)^3$ | $3^3 \times (a^2)^3 \times b^3$ | $27 \times a^6 \times b^3$ | $27a^6b^3$ |
| $(4a^3b^4)^2$ | $4^2 \times (a^3)^2 \times (b^4)^2$ | $16 \times a^6 \times b^8$ | $16a^6b^8$ |
| $(5a^4b)^3$ | $5^3 \times (a^4)^3 \times b^3$ | $125 \times a^{12} \times b^3$ | $125a^{12}b^3$ |
| $(7a^2b^5)^2$ | $7^2 \times (a^2)^2 \times (b^5)^2$ | $49 \times a^4 \times b^{10}$ | $49a^4b^{10}$ |
| $(a^2b^4c)^3$ | $(a^2)^3 \times (b^4)^3 \times c^3$ | $a^6 \times b^{12} \times c^3$ | $a^6b^{12}c^3$ |
| $(3a^4b^3)^4$ | $3^4 \times (a^4)^4 \times (b^3)^4$ | $81 \times a^{16} \times b^{12}$ | $81a^{16}b^{12}$ |
| $(2a^3b^2c^4)^5$ | $2^5 \times (a^3)^5 \times (b^2)^5 \times (c^4)^5$ | $32 \times a^{15} \times b^{10} \times c^{20}$ | $32a^{15}b^{10}c^{20}$ |