

Fill in the Blanks

Simplifying Expressions by Multiplying

Question	Write Each Term Separately as a Product	Simplify Each Variable	Answer
$2a \times 3a$	$2 \times a \times 3 \times a$	$6 \times a^2$	$6a^2$
$5a \times 2b$	$5 \times a \times 2 \times b$	$10 \times a \times b$	$10ab$
$3ab \times 4a$	$3 \times a \times b \times 4 \times a$	$12 \times a^2 \times b$	$12a^2b$
$5b^2 \times b$	$5 \times b^2 \times b$	$5 \times b^3$	$5b^3$
$3a \times 2a \times a$	$3 \times a \times 2 \times a \times a$	$6 \times a^3$	$6a^3$
$8b^3 \times 2b^2$	$8 \times b^3 \times 2 \times b^2$	$16 \times b^5$	$16b^5$
$a^4 \times 3a^2$	$a^4 \times 3 \times a^2$	$3 \times a^6$	$3a^6$
$7a \times 2a^6$	$7 \times a \times 2 \times a^6$	$14 \times a^7$	$14a^7$
$b^3 \times 2b^2 \times 4b^4$	$b^3 \times 2 \times b^2 \times 4 \times b^4$	$8 \times b^9$	$8b^9$
$3a^3 \times 4a^2b^2$	$3 \times a^3 \times 4 \times a^2 \times b^2$	$12 \times a^5 \times b^2$	$12a^5b^2$
$2a^2b^2 \times 5ab$	$2 \times a^2 \times b^2 \times 5 \times a \times b$	$10 \times a^3 \times b^3$	$10a^3b^3$
$\frac{1}{2}ab \times 6a^2b$	$\frac{1}{2} \times a \times b \times 6 \times a^2 \times b$	$3 \times a^3 \times b^2$	$3a^3b^2$
$ab^2 \times 4ab \times 5b^3$	$a \times b^2 \times 4a \times b \times 5 \times b^3$	$20 \times a^2 \times b^6$	$20a^2b^6$
$4a^3b^2 \times 6a^4b$	$4 \times a^3 \times b^2 \times 6 \times a^4 \times b$	$24 \times a^7 \times b^3$	$24a^7b^3$
$ab \times 2b^2c \times a^3$	$a \times b \times 2 \times b^2 \times c \times a^3$	$2 \times a^4 \times b^3 \times c$	$2a^4b^3c$
$\frac{2}{3}bc^3 \times 6a^2c^2 \times b$	$\frac{2}{3} \times b \times c^3 \times 6 \times a^2 \times c^2 \times b$	$4 \times a^2 \times b^2 \times c^5$	$4a^2b^2c^5$