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Multiplying Monomials Worksheets

Fill in the blanks.

1. $25a \times 4a = \underline{\hspace{2cm}}$

2. $7ab^2 \times 9a^3 = \underline{\hspace{2cm}}$

3. $3a \times 6bc = \underline{\hspace{2cm}}$

4. $a^2m \times m^2 = \underline{\hspace{2cm}}$

5. Find the product of the monomials

(i) $10x \times 10x = \underline{\hspace{2cm}}$

(ii) $6x \times 6x \times 2x = \underline{\hspace{2cm}}$

(iii) $15xy \times (-3ay) = \underline{\hspace{2cm}}$

(iv) $4a \times 4a^2 \times 2a^3 = \underline{\hspace{2cm}}$

Find the product of the three monomials

6. $5mn^2p^5$, $4m^3n^2p^2$ and $2mnp^2$

7. $4xy^2$, $3x^2y$ and $5xy$

8. x^5 , $15y^2x^5$ and xyz

9. $(-2b^2c)$, $(-2bc)$ and $11c^2b$

10. Multiply $(-5p^3q^2)$ by $(-8p^3q^5)$

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1.	$100a^2$
2.	$63a^4b^2$
3.	$18abc$
4.	a^2m^3
5.	(i) $100x^2$ (ii) $72x^3$ (iii) $-45axy^2$ (iv) $32a^6$
6.	$40m^5n^5p^9$
7.	$60x^4y^4$
8.	$15x^{11}y^3z$
9.	$44b^4c^4$
10.	$40p^6q^7$

FUN FACT

1. Monomial are the building blocks of polynomials.
2. A monomial can also be variable or a combination of numbers and variables, like $90a$ or $8xyz$.
3. A monomial multiplied by a constant is also a monomial.

