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Multiplying Monomials Worksheets

Fill in the blanks.

1. $9a \times 5a = \underline{\hspace{2cm}}$

2. $30a^2 \times 4a^3 = \underline{\hspace{2cm}}$

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

4. $9mn \times 8m^3 = \underline{\hspace{2cm}}$

5. Find the product of the monomials

(i) $10x \times 8x =$

(ii) $30x \times x \times 4 =$

(iii) $21xy \times 3ay =$

(iv) $3a^2 \times 4a^2 \times 6a^3 =$

Find the product of the three monomials

6. $9ab^2c^5$, $2a^3b^2c^2$ and $5abc^2$

7. xy^2 , x^2y and xy

8. $5x^5$, y^2x^5 and $10xyz$

9. $(-4b^2c)$, $(-2bc)$ and $10c^2b$

10. Multiply $(-5m^2n^2)$ by $(-6m^3n^5)$

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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. | $45a^2$ |
| 2. | $120a^5$ |
| 3. | $18a^2b^2$ |
| 4. | $72m^4n$ |
| 5. | (i) $80x^2$ (ii) $120x^2$ (iii) $63axy^2$ (iv) $72a^7$ |
| 6. | $90a^5b^5c^9$ |
| 7. | x^4y^4 |
| 8. | $50x^8y^8$ |
| 9. | $80b^4c^4$ |
| 10. | $30m^5n^7$ |

FUN FACT

1. Every number is a monomial, like 9 or 700.
2. A monomial multiplied by a monomial gives a monomial.
3. A monomial is a polynomial, but has only one term.

