

The Weekly Rigor

No. 302

“A mathematician is a machine for turning coffee into theorems.”

April 4, 2020

10 Problems in Multiplying Monomials

PROBLEMS

Find each product.

1. $(3b)(2a)$.

2. $(4a^3)(3a^2)$.

3. $(-6a^2)(3a)$.

4. $(12ax)(4cx)$.

5. $(7m^5n^3)(-5n^4x)$.

6. $(12a^2x^3y^2)(7a^3c^2xy)$.

7. $(-9a^3b^4c^5)(-7a^2b^3x^2)$.

8. $(a + b)^3 + (a + b)^2$.

9. $(-8a^2b^2)(-3ab^3)$.

10. $(-2xy^2z^2)(-x^2y^3z)$.

ANSWERS

1. $6ab$	2. $12a^5$
3. $-18a^3$	4. $48acx^2$
5. $-35m^5n^7x$	6. $84a^5c^2x^4y^3$
7. $63a^5b^7c^5x^2$	8. $(a + b)^5$
9. $24a^3b^5$	10. $2x^3y^5z^3$

“Only he who never plays, never loses.”