

Multiplying Monomials

Simplify each expression.

<p>1. $x \cdot x^4 \cdot x^5$</p> <p>$x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: x^{10} </div>	<p>2. $z^3 \cdot z^2$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: z^5 </div>
<p>3. $(a^4b)(a^2b^3)$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: a^6b^4 </div>	<p>4. $(m^6n^2)(mn)$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: m^7n^3 </div>
<p>5. $(3y^5z)(5yz^3)$</p> <p>$3 \cdot y \cdot y \cdot y \cdot y \cdot y \cdot z \cdot 5 \cdot y \cdot z \cdot z \cdot z$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: $15y^6z^4$ </div>	<p>6. $(2f^2g^4)(7f^3g^2)$</p> <p>$2 \cdot f \cdot f \cdot g \cdot g \cdot g \cdot g \cdot 7 \cdot f \cdot f \cdot f$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: $14f^5g^6$ </div>
<p>7. $(-5x^4y^2)(7xyz^3)$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: $-35x^5y^3z^3$ </div>	<p>8. $(-3ab^2c)(-2ac^{-1})$</p> <p style="text-align: center;">$\frac{c}{c} = c^0 = 1$</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto; margin-right: auto;"> Answer: $6a^2b^2$ </div>

Find the area.

9.

$8xy$

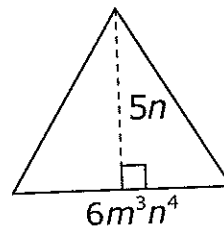
$4x^5y^2$

$A = bh$ or $A = lw$

$A = (8xy)(4x^5y^2)$

Answer: $32x^6y^3$

10.



$A = \frac{bh}{2}$

$A = \frac{(6m^3n^4)(5n)}{2}$

$A = 15m^3n^5$

Answer: $15m^3n^5$