Bell Work: 1-10-19

1. Grab your spiral notebook from the box.
2. Begin working on Bell work problems.

Simplify each problem.

(1) $(4h^{\frac{1}{4}})^{-8}$

$4^{1\cdot-8}h^{\frac{1}{4}\cdot-8}$

$4^{-8}h^{-2} = \frac{1}{4^8h^2}$

(2) $(7c^6)^5c^9$

$7^{1\cdot5}c^{6\cdot5}c^9$

$7^5c^{30}c^9$

$7^5c^{30+9} = 7^5c^{39}$

(3) $(g^3)^7(h^0)^3$

$g^{3\cdot7}h^{0\cdot3}$

$g^{21}h^0 = g^{21}$

(4) $(x^2)^4(y^7)^{-4}$

$x^{2\cdot4}y^{7\cdot-4}$

$x^8y^{-28} = \frac{x^8}{y^{28}}$

Examples

(1) $4x^5 \cdot 7x$

$4(7)(x^{5+1})$

$28x^6$

(2) $12x^2y^5 \cdot 3x^3y^5$

$12(3)(x^{2+3})(y^{5+5})$

$36x^5y^{10}$

(3) $(8k)^2$

$8^{1\cdot2}k^{1\cdot2}$

$8^2k^2 = 64k^2$

(4) $(3x)^4$

$3^{1\cdot4}x^{1\cdot4}$

$3^4x^4 = 81x^4$