See the ANSWERS below on PAGE 2.

Simplify each expression.

1)
$$6c^3vx^2y^4 \cdot 8cvx^0y^2$$
 2) $\left(\frac{8m^4v^8c^{10}}{2mv^4c^{-3}}\right)$

3)
$$(4x^{-3}y^{-4}z^{-1})^2$$
 4) $8^{-2}x^5yz^{-3}$

5)
$$\left(\frac{3x^3m}{4xm^4}\right)$$
 6) $\left(5m^{-4}x^{-2}\right)^{-3}$

7)
$$\left(\frac{3x^3z^2}{5xz}\right)^2$$
 8) $\left(\frac{4xy}{5x^{-3}y^2}\right)^0$

9)
$$(9m^2v^4z^8)^{\frac{1}{2}}$$
 10) $(7^2v^0z^{10}y^{12})^{\frac{1}{2}}$

 $2)\left(\frac{8m^4v^8c^{10}}{2mv^4c^{-3}}\right) = 4m^3v^4c^{13} \quad 2)\frac{8}{2}m^{4-1}v^{8-4}l^{10-3} = 4m^3v^4c^{13}$ 3) $(4x^{-3}y^{-4}z^{-1})^2 = \frac{16}{x^6y^8z^2}$ 3) $16x_1^{-6}y_1^{-8}z_1^{-2} = \frac{1}{x^6}$ 4) $85^{-2}x^{5}yz_{2}^{-3} = \frac{x^{5}y}{64z^{3}}$ 4) $\frac{x^{5}}{8^{2}z^{3}} = \frac{x^{5}y}{64z^{3}}$ 5) $\left(\frac{3x^{3}m}{4xm^{4}}\right) = \left(\frac{3x^{2}}{4m^{3}}\right)$ 5) $\frac{3}{4}$ χ^{3-1} $m^{1-4} = \frac{3}{4}$ χ^{3} χ^{3 8) $\left(\frac{4xy}{5x^{-3}y^2}\right)^0 = 1$ 8) anything to the zero power = 19) $(9m^2v^4z^8)^{\frac{1}{2}} = 3mv^2z^4$ 9) $9^{1/2}m^{1/2}z^4 = 3mv^2z^4$ $^{10)}\left(7^{2}v^{0}z^{10}y^{12}\right)^{\frac{1}{2}}=7z^{5}y^{6}$ =1 × 10) 7'25 y 6 = 1725/6