



Yr Level:	Subject: Maths	Unit: 2	
Name : _____		Date _____	<b>12</b>

Match the questions to the answers.

**.1 Simplify.**

(a)  $\frac{x^4 y \times y^2 x^6}{x^4 y^5}$   $\frac{5x^9}{2y^3}$

(b)  $\frac{2x^2 y^4 \times 3x^3 y}{2xy^4}$   $\frac{x^6}{y^2}$

(c)  $\frac{2x^5 y^4 \times 2xy^3}{2x^2 y^5 \times 3x^2 y^3}$   $x^7 y^3$

(d)  $\frac{x^3 y^7}{xy^4} \times \frac{x^2 y^8}{x^3 y}$   $xy^{10}$

(e)  $\frac{2x^7 y^2}{4x^3 y^7} \times \frac{10x^8 y^4}{2x^3 y^2}$   $\frac{2x^2}{3y}$

(f)  $\frac{x^9 y^6}{x^4 y^2} \div \frac{x^3 y^2}{x^5 y}$   $3x^4 y$

$$(g) \frac{10x^5 y^2}{9x^6 y^6} \div \frac{3x^3 y}{5x^7 y^4} \qquad \frac{49}{25x^3 y}$$

$$(h) \frac{7y^3 x^2}{5y^5 x^4} \div \frac{5x^6 y^2}{7x^5 y^3} \qquad \frac{x^{16}}{y^{16}}$$

$$(i) \frac{(x^5 y)^2 \times (x^3 y^4)^2}{(x^3 y^3)^3} \qquad \frac{50x^3}{27y}$$

$$(j) \frac{(2x^4 y^2)^3}{(y^3 x^2)^3} \times \frac{(x^4 y^4)^2}{3(x^2 y)^2} \qquad \frac{3125x^4 y^2}{16}$$

$$(k) \left(\frac{x^2}{y^4}\right)^3 \times \left(\frac{x^5}{y^2}\right)^2 \qquad \frac{8x^{10} y^3}{3}$$

$$(l) \frac{(5x^3 y^2)^3}{4x^7 y^6} \div \left(\frac{2xy^3}{5x^2 y^4}\right)^2 \qquad x^7 y$$