



Yr Level:	Subject: Maths	Unit: 2	
Name : _____		Date _____	12

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) $\frac{x^9 y^6}{x^4 y^2} + \frac{x^3 y^2}{x^5 y}$

$$3x^4 y$$

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

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

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

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

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

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