Yr Level:	Subject: Maths	Unit: 2	
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Match the questions to the answers.

1 Simplify.

(a) $\dfrac{x^4y \times y^2x^6}{x^4y^5}$

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

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

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

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

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

$\dfrac{5x^9}{2y^3}$

$\dfrac{x^6}{y^2}$

x^7y^3

xy^{10}

$\dfrac{2x^2}{3y}$

$3x^4y$

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

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

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

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

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

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