Year 10 Indices Test   **Name:**

Express all answers with positive indices

Simplify:

(a) $7g^5 h^4 \times 2g^2 h^{-3}$

(f) $(a^{-4}b^3)^5$

(b) $72p^5 t^{-1} \div 3p^{14} t^{3}$

(g) $\left(\frac{a^{-5}b}{c^{-3}}\right)^2$

(c) $2g^3 h^5 \times (-6)g^2 h^2$

(h) $c^{\frac{2}{5}} \times c^{\frac{1}{4}}$

(d) $-28p^5 t^3 \div (-7)p^3 t^5$

(i) $a^{\frac{3}{4}} \times a^{\frac{2}{3}}$

(j) $6^{-2}a^2 b^{-5}$

(e) $(5a^{-3})^2$

Evaluate:

(a) 2^{-3}.

(d) 2^{10}

(b) $3 \times 25^{0.5}$.

(c) $5 \times 8^{\frac{1}{3}}$

(e) $5 \times (512^{\frac{1}{3}})^{\frac{1}{3}}$