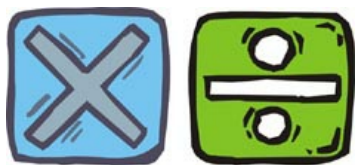


Index arithmetic



Here are some numbers written in index form.

Simplify each of the following and write as single powers.

Do not calculate the answer. Example: $5 \times 5 = 5^2$

a) $8^3 \times 8^4 =$ _____

b) $5^6 \times 5^{-3} =$ _____

c) $2^8 \div 2^3 =$ _____

d) $9^6 \div 9^8 =$ _____

e) $(7^5)^3 =$ _____

f) $\frac{3^4 \times 3^6}{3^2} =$ _____

g) $\frac{5^2 \times 5^4}{5^3 \times 5^9} =$ _____

h) $6^3 \times 36 =$ _____