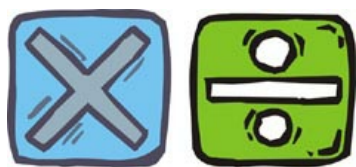


# Index arithmetic

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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)  $6^3 \times 36 =$  \_\_\_\_\_