

Indices II

Increasingly
Difficult
Exercises

a) Write as a power of 3

$$9^2$$

b) Write as a power of 5

$$25^4$$

c) Write as a power of 8

$$2^6$$

d) Write as a power of 2

$$8^3 \times 4^3$$

e) Write as a power of 3

$$27^2 \div 9^3$$

f) Write as a power of 2

$$16^2 \times 4^3$$

g) Write as a power of 10

$$4^2 \times 5^4$$

h) Find the values of m and p.

$$2^m = 16$$

$$9^p = 3^m$$

i) Find the value of y.

$$4^y = 8^6$$

j) Find two sets of values for c and d.

$$32^c = 2^d$$

k) Find the value of x.

$$3^x = 9^{x+1}$$

l) Find the value of x.

$$\frac{2^{3x}}{2^{x-5}} = 2^{17}$$

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