Indices

Question 1

Write down the value of

a) $7^0 =$

b) $2^1 =$

c) $5^2 =$

d) $3^3 =$

e) $2^3 =$

f) $10^4 =$

g) $2^{-1} =$

h) $5^{-2} =$

i) $4^{-3} =$

j) $10^{-2} =$

Question 2

Work out the following, leaving the answer is a power.

a) $2^2 \times 2^3 =$

b) $3^5 \times 3^3 =$

c) $5^2 \times 5^{12} =$

d) $10^6 \times 10^{-2} =$

e) $4^9 \times 4^{-5} =$

f) $2^6 \times 2^{-8} =$

g) $4^{-7} \times 4^{-5} =$

Indices

Question 3

    a. $2^{10} \div 2^3 \ =$

    b. $3^5 \div 3^2 \ =$

    c. $4^{12} \div 4^3 =$

    d. $8^2 \div 8^5 \ =$

    e. $10^3 \div 10^8 \ =$

    f. $5^6 \div 5^{10} \ =$

    g. $3^{-4} \div 3^6 \ =$

    h. $2^{-3} \div 2^{-8} \ =$

Question 4

Standard form is written in the form of powers of 10.

If $p = 8 \text{ x } 10^3$ and $q = 2 \text{ x } 10^4$

    a) Find the value of p x q.
        Give your answer in standard form.

                                          Answer: _____

    b) Find the value of $p \, / \, q$

                                          Answer: _____

    c) Find the value of $p + q$.
        Give your answer as an ordinary number.

                                          Answer: _____