1. Write in exponential form:
    a) $5 \times 5 \times 5 \times 5 \times 5$ 1
    b) $(-4) \times (-4) \times (-4)$

2. Value of $(-1)^{15} \times (-1)^{16}$ equals: 1
    (a)1   (b)-1   (c) -240   (d) 240

3. Express each of the following in exponential form: 2
    (a) 1024   (b) 1331/343

4. Which is greater:
    (a) 3^6 or 6^3?   2
    (b) $-(5^2)$ or $(-5)^2$?

5. Express each of the following numbers as a product of powers of its prime
    factors: 2
    a) 128
    b) 625

6. Find the value:
    a) $(25)^{3/2}$
    b) $(27)^{4/3}$ 3
    c) $\left(\frac{4}{9}\right)^{3/2}$

7. Evaluate (i) $\left\{\left(\frac{1}{3}\right)^{-1} - \left(\frac{1}{4}\right)^{-1}\right\}^{-1}$ (ii) $\left(\frac{5}{8}\right)^{-7} \times \left(\frac{8}{5}\right)^{-4}$ 3

8. Find the value of m for which $5^m \div 5^{-3} = 5^5$.   3

9. Simplify.
    (i) $\dfrac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}}$ $(t \neq 0)$ (ii) $\dfrac{3^{-5} \times 10^{-5} \times 125}{5^{-7} \times 6^{-5}}$ 4

10. Simplify and express each of the following in exponential form
    using laws of exponents:
    a) $(4^2)^3$
    b) $2^3 \times 5^3$ 4
    c) $a^4 \times a^7$
    d) $5^{12} \div 5^4$