1. Write down 6 laws of indices.

2. Simplify 
$$2x^3 \times 5x^{-2} \times 3x^4$$

- 3. Express  $4p^{-3}$  x 5p with a positive index.
- 4. Expand and simplify

$$a^{3/2}(2a^{1/2} + 5a^{-3/2}).$$

- 5. Evaluate 64<sup>2/3</sup>
- 6. Simplify  $3p^{-3}(2p^3 5p^4)$
- 7. Express  $(a^2b^3)^3$  without brackets.
- 8. Show clearly that  $32^{-3/5} + 2^{-3} = \frac{1}{4}$
- 9. Simplify

$$\frac{4a^3\times5a^5}{2a^4}$$

10. Simplify

$$\frac{6p^{-2}\,x\,4p^5}{8p^3}$$

11. Simplify and express with a positive index.

12. Evaluate 81<sup>-3/4</sup>.