The questions in this series of worksheets appear frequently.

These are the GIFTS you must take to succeed

<u>Indices</u>   (Non Calculator)

Simplify, leaving your answers with positive indices:

1. $\dfrac{x^5 \times x^6}{x^3}$

2. $\dfrac{x^7 \times x^{-4}}{x^2}$

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

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

5. $\dfrac{8x^5 \times 3x}{12x^2}$

6. $\dfrac{3x^2 \times 2x^{-1}}{7x}$

7. $\dfrac{2x^3 \times 5x}{15x^{-6}}$

8. $\dfrac{x^8 \times 3x^{-6}}{x^5}$

9. $\dfrac{2x^2y^3 \times 6x^2y}{4xy^2}$

10. $\dfrac{3x^2y^{\frac{1}{3}} \times 6x^{-1}y^{\frac{8}{3}}}{9x^3y^2}$

<u>APPLYING QUESTION</u>

(a)   Simplify, $\dfrac{x^5y^3 \times 2x^{-1}y}{3x^2y^5}$,

leaving your answer with positive indices.

(b)   Hence, evaluate $\dfrac{x^5y^3 \times 2x^{-1}y}{3x^2y^5}$, when $x = -3$ and $y = 2$.