## **Laws of Indices: Dividing Terms**

Simplify the following expressions fully.

1. Simplify: 
$$\frac{x^5}{x^2}$$

2. Simplify: 
$$10y^8 \div 2y^3$$

3. Simplify: 
$$\frac{a^4b^3}{a^2b}$$

4. Simplify: 
$$\dfrac{12p^7q^5}{4p^3q^4}$$

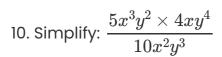
5. Simplify: 
$$\frac{x^3}{x^5}$$
 (answer with a positive index)

6. Simplify:  $\frac{5a^2}{15a^6}$  (answer with a positive index)

7. Simplify:  $(4x^3)^2 \div 2x^2$ 

8. Simplify:  $\frac{(3y^4)^3}{9y^5}$ 

9. Simplify:  $\dfrac{8a^4 imes 3a^5}{6a^2}$ 



11. The area of a rectangle is  $24a^5b^3$  and its width is  $6ab^2$ . Find an expression for its length.

12. Simplify: 
$$\frac{3(x^2y)^4}{9x^5y^3}$$

