QUESTION **3** Simplify these expressions.

a $(a^2)^4 =$ _____ **b** $(x^7)^5 =$ _____ **c** $(y^4)^2 =$ _____

d $(m^3)^2 =$ _____ **e** $(n^4)^7 =$ _____ **f** $(4p^3)^2 =$ _____

g $a^0 =$ _____ **h** $(5y)^0 =$ _____ **i** $(9x^0)^2 =$ _____

j $x^0 + 6y^0 - (3z)^0 =$ _____ **k** $7(x^2)^0 \times 2(y^4)^0 =$ _____ **l** $-12p^0 =$ _____

QUESTION **5** Simplify the following.

a $5(a^3)^2 \times 6a^0 =$ _____ **b** $(4a^2b^2)^3 \div 16a^2b^2 =$ _____

d $(6a^2)^2 \div 8a^4 =$ _____ **e** $(12a)^2 \div (6b)^2 =$ _____ **f** $12ab \times 4a \times b =$ _____

g $(x^7)^2 \div x^5 =$ _____ **h** $a^3b^2 \times a^2b^2 \times ab =$ _____ **i** $64x^2y^2z \div 16x^2y^2 =$ _____

c $(7x^2y^3)^0 =$ _____ **d** $(9xy)^0 + 9(xy)^0 =$ _____

QUESTION **5** Simplify the following.

d $\dfrac{(7a^2)^3}{(7a^3)^2} =$ _____ **e** $\dfrac{12m^4 \times 18m^3}{9m^2 \times 4m^5} =$ _____ **f** $\left(\dfrac{6a^2}{3a}\right)^3 \times (8a)^2 =$ _____

g $\dfrac{(8c^2)^3}{4c^2 \times 6c^3} =$ _____ **h** $\dfrac{9m^6 \times 8m^9}{24m^8} =$ _____ **i** $\left(\dfrac{4m^5}{3}\right)^3 \times \dfrac{(2n)^3}{64m^8} =$ _____

a $(m^2n^2p)^4 \times m^2n =$ _____ **b** $\dfrac{48x^8y^6}{8x^4y^4} =$ _____ **c** $\dfrac{m^6n^8 \times (m^2n)^3}{(mn)^4} =$ _____

d $8 + 8x^0 + (8x)^0 =$ _____ **e** $\dfrac{(6a^4)^2}{(6a^2)^4} =$ _____ **f** $\dfrac{9y^4 \times 6y^8}{3y^6 \times y^2} =$ _____

g $\dfrac{20x^6 \times (2x^3)^2}{10x^8} =$ _____ **h** $\left(\dfrac{9k^2}{3k}\right)^3 \times (4k^2)^2 =$ _____ **i** $\dfrac{(5y^5)^3}{5y^2 \times (5y)^2} =$ _____