OOPS! Below is a worked solution to a question that I feel you could have gained more marks on ..

(a) Simplify $(p^3)^2$

$$p^{3 \times 2} = p^6$$

(1)

(b) Simplify $\dfrac{t^8}{t^3}$

$$t^{8-3} = t^5$$

(1)

$2^3 \times 2^n = 2^9$

(c) Work out the value of n

$9 = 3 + \_\_$

$$2^3 \times 2^- = 2^9$$

$$n = 6$$

(1)

$2x^3 = 128$

(d) Work out the value of x

$$2x^3 = 128$$

$$\div 2 \quad x^3 = 64$$

$$x = \sqrt[3]{64} = \underline{4}$$

(1)

FACEPALM!!

NOW HAVE A GO AT THIS:

JustMaths

(a) Simplify $(p^4)^2$

(1)

(b) Simplify $\dfrac{t^9}{t^2}$

(1)

$2^4 \times 2^n = 2^9$

(c) Work out the value of n

(1)

$2x^3 = 54$

(d) Work out the value of x

(1)