1 Write down the value of 7^2

$$7^2 = 7x7 = 49$$

49



2 Work out 3^2

$$3^2 = 3^1 \times 3^1$$

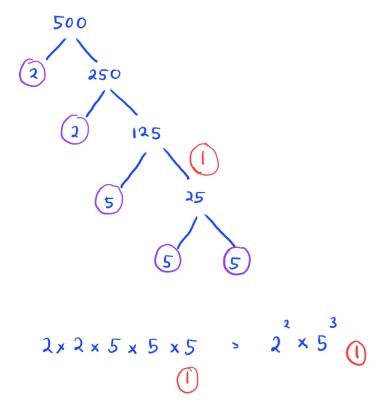
$$= 9$$

1



(Total for Question 2 is 1 mark)

3 Write 500 as a product of powers of its prime factors.



2 x 5

(Total for Question 3 is 3 marks)

4 Simplify $(2 \times 2^8)^2$

Give your answer as a power of 2

$$\left(2^{\left(-5+8\right)}\right)^{2}$$

$$=\left(2^{3}\right)^{2}$$

$$=2^{3\times2}$$

$$=2^{6}$$

$$=\left(2^{3}\right)^{2}$$

26

(Total for Question 4 is 2 marks)