Using the properties of exponents, the expression

$$x^{\left(4^{s+t}\right)}$$

can be written as

$$\left(x^{\left(4^{6}\right)}\right)^{\left(4^{1}\right)}$$

where s and t are constants. What is the value of $s + t$?

(A) 2

(B) 4

(C) 5

(D) 7