## **Daily Question**

## Day 5 Pure Mathematics - Mark Scheme

## Question 1

## Question 2

(a) 
$$10\,000 = \frac{a}{1-(-0.9)}$$
 M1  
 $a = 19\,000$  M1  
b) Use  $ar^4$  M1  
 $19\,000 \times (-0.9)^4 = 12465$ .9 (accept awrt 12466) A1  
(b)  $S = \frac{a(1-r^{12})}{1-r}$  or lists and adds their first twelve terms with their  $a$  M1  
 $S = \frac{"19\,000"(1-(-0.9)^{12})}{1-(-0.9)}$  or  $S = 10\,000(1-(-0.9)^{12})$  A1ft A1cso (3)