

## Daily Question

### Day 7 Statistics – Mark Scheme

[Check mark scheme for answers , methods will be different with new specifications]

#### Question 1

- a** 0.812
- b**  $r = 0.812$ ,  $H_0: \rho = 0$ ,  $H_1: \rho > 0$   
Critical value = 0.7887 < 0.812.  
Reject  $H_0$ : there is evidence of positive correlation at the 1% level of significance.



#### Question 2

- a** -0.728
- b**  $H_0: \rho = 0$ ,  $H_1: \rho \neq 0$ , critical value = 0.8114. Accept  $H_0$ : there is no evidence of correlation between the engine size and fuel economy at the 5% level of significance.