



1. Each year the Dallas Cowboys play 8 games on their home field. Their owner claims the average attendance last year was 92,000 people. The total attendance at home was actually 732,958 people.
- (a) Based on this claim, calculate the total attendance for the games the Cowboys played at home last year. (2 marks)
  - (b) Calculate the percentage error in the owner's claim (2 marks)
  - (c) Write down your answer to part (b) in the form  $a * 10^k$  where  $1 \leq a < 10, k \in \mathbb{Z}$  (2 marks)

Mark scheme:

(a)  $92000 * 8$  (M1)  
 $= 736000$  (A1)

(b)  $\left| \frac{736000 - 732958}{732958} \right| \times 100$  (M1)  
 $= .415\%$  (A1)

(c)  $4.15 * 10^{-1}$  (A1) for the 4.15  
(A1) for the  $10^{-1}$

Follow through from the answer to part (b)