

- 6 (a) At a festival, 380 people out of 500 people questioned say that they are camping.  
There are 55 300 people at the festival.

Calculate an estimate of the total number of people camping at the festival.

..... [2]

- (b) 12 friends travel to the festival.  
5 travel by car, 4 travel by bus and 3 travel by train.  
Two people are chosen at random from the 12 friends.

Calculate the probability that they travel by different types of transport.

..... [4]

- (c) Arno buys a student ticket for \$43.68 .  
This is a saving of 16% on the full price of a ticket.

Calculate the full price of a ticket.

\$ ..... [2]

(d) At a football match, there are 29 800 people, correct to the nearest 100.

- (i) At the end of the football match, the people leave at a rate of 400 people per minute, correct to the nearest 50 people.

Calculate the lower bound for the number of minutes it takes for all the people to leave.

..... min [3]

- (ii) At a cricket match there are 27 500 people, correct to the nearest 100.  
Calculate the upper bound for the difference between the number of people at the football match and at the cricket match.

..... [2]