

1. The time it took each of Zoe, Peter, Mary and Paul to run a race was recorded.

The mean of these times is 12.5 seconds.

Harry also ran the race.

It took Harry 14.0 seconds to run the race.

Work out the combined mean time for all 5 people.

$$12.5 \times 4 = 50 \quad (\text{sum of 4})$$

$$50 + 14 = 64 \quad (\text{sum of 5})$$

$$\frac{64}{5} = 12.8$$

..... 12.8 seconds

(Total for Question 1 is 3 marks)

2. The mean of eight numbers is 41.
The mean of two of the numbers is 29.

What is the mean of the other six numbers?

$$8 \times 41 = 328 \quad (\text{sum of 8})$$

$$2 \times 29 = 58 \quad (\text{sum of 2})$$

$$328 - 58 = 270 \quad (\text{sum of 6})$$

$$\frac{270}{6} = \underline{\underline{45}}$$

..... 45

(Total for Question 2 is 4 marks)