



COACHING CENTRE

Formulae and Equations

Blood Alcohol Content

Calculate the BAC for the following females. Answer correct to two decimal places.

- a Sarah is 48 kg and has consumed 4 standard drinks in the past 2 hours.
- b Sienna is 59 kg and has consumed 3 standard drinks in the past hour.
- c Alyssa is 81 kg and has consumed 6 standard drinks in the past 2 hours.
- d Kayla is 65 kg and has consumed 8 standard drinks in the past 6 hours.
- e Tahlia is 71 kg and has consumed 13 standard drinks in the past 3 hours.
- f Mia is 55 kg and has consumed 9 standard drinks in the past 5 hours.

Calculate the BAC for the following males. Answer correct to two decimal places.

- a Wei is 53 kg and has consumed 3 standard drinks in the past 3 hours.
- b Riley is 64 kg and has consumed 5 standard drinks in the past hour.
- c Thomas is 98 kg and has consumed 2 standard drinks in the past 2 hours.
- d Zachary is 47 kg and has consumed 10 standard drinks in the past 5 hours.
- e Charlie is 85 kg and has consumed 12 standard drinks in the past 4 hours.
- f Jacob is 104 kg and has consumed 7 standard drinks in the past 6 hours.