

Alcohol

Name..... Class.....

(A) On Friday John celebrated his 21st birthday and consumed the following alcoholic drinks.

He went out with his friends for lunch and then to a party in the evening. He did not drive at all on Friday, but had to visit his grandmother on Saturday. When would it be safe for John to drive on Saturday in the knowledge that his body was clear of any alcohol?

Lunch 12:00 to 15:00 3 pints of beer and 3 glasses of wine

Party 20:00 to 01:00 2 pints of beer, 4 glasses of wine, 2 vodkas

Using the following information

1 unit of alcohol = $\frac{1}{2}$ pint beer = 1 glass of wine = 1 measure of spirits.

The liver breaks down alcohol in the body at 1 unit /hour

Calculate and show your working

How many units of alcohol did John consume

(i) at lunchtime

(ii) at his party

(iii) in total

(iv) At what time would his body be free of alcohol

