# WELLNESS WORKSHEET 52

Alcohol and How It Affects You

## **Evaluate Your Reasons for Drinking**

Be honest with yourself. It is necessary for you to know why you drink in order to control your alcoholrelated behavior. Put a check next to the statements that are true for you.

I drink to tune myself *in* to

	enhance enjoyment of people, activities, special occasions			
	promote social ease by relaxing inhibitions, aiding ability to talk and relate to others			
	complement and add to enjoyment of food			
	relax after a period of hard work and/or tension			
I drink to tune myself out to				
	escape problems			
	mask fears when courage and self-confidence are lacking			
	block out painful loneliness, self-doubt, feelings of inadequacy			
	substitute for close relationships, challenging activity			

mask a sense of guilt about drinking

### **Alcohol Content**

Drinks differ in the amount of pure alcohol they contain; therefore, a "drink" means different amounts of liquid depending on the type of drink. A proof value indicates concentration of alcohol in a particular drink; the proof value is equal to twice the percentage of alcohol in a drink. To calculate the number of ounces of pure alcohol in a drink, multiply the size of the drink by the percentage of alcohol it contains (one-half proof value). For example, a 12 oz beer (10 proof) has 0.6 oz of pure alcohol (10 proof = 5% alcohol concentration;  $0.05 \times 12 \text{ oz} = 0.6 \text{ oz}$ ).

Calculate the number of ounces of pure alcohol in each of the following drinks.

Drink	Size (oz)	<b>Proof value</b>	Ounces of pure alcohol
beer	12	10	
wine	6	24	
sherry	4	40	
liquor	1.5	80	

Try the calculations on different size drinks and drinks of different alcohol content.

(over)

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### WELLNESS WORKSHEET 52 — continued

### Maintenance Rate (or how long to sip a drink)

Remember that the effects of alcohol will be greater when your BAC is rising than when you keep it stable or allow it to fall. BAC is directly proportional to the rate of ethyl alcohol intake. Assuming a general maintenance rate (rate at which the body rids itself of alcohol) of 0.1 oz of pure alcohol per hour per 50 pounds of body weight, you can calculate the approximate length of time it takes you to metabolize a given drink by applying the following formula:

 $\frac{2.5 \times \text{proof of drink} \times \text{volume (size in oz) of drink}}{\text{body weight}} = \text{time in hours per drink}$ 

For example, to calculate how long it will take to metabolize one can (12 oz) of 10-proof beer for a person weighing 150 pounds:

$2.5 \times 10 \times 12$	So, it takes this 150-pound individual
= 2 hours	2 hours to completely metabolize one
150	12 oz can of 10-proof beer.

Choose your favorite three drinks (or choose three of the examples from the previous page), and use this formula to calculate your maintenance rate for each drink.

1.	(	) × (	) × (	)	- hours/drink
		(	)		
2.	(	)×(	)×(	)	- hours/drink
		(	)		
3.	(	) × (	)×(	)	- hours/drink
		(	)		

#### In Case of Excess

To sober up, the only remedy that works is to stop drinking and allow time. For any given type of drink, the amount of time would be the number of drinks you have consumed multiplied by your maintenance rate for that drink. For the example given above, if the 150-pound individual had consumed three 12 oz cans of 10-proof beer, he or she would have to wait 6 hours before the alcohol would be metabolized. Calculate the amount of time that would have to elapse for you to metabolize all the alcohol if you had consumed three of one of the types of drinks you calculated a maintenance rate for above:

 $3 \times () =$ \_\_\_\_\_hours

Given this consumption level, your answer here indicates the number of hours you should wait before driving.