

3-2**Real-Life Career Activity*****Adventure Guide***

Adventure guides lead groups of people on outdoor adventure trips. The trips may involve activities such as hiking, camping, mountain climbing, white-water rafting, and cross-country skiing. Adventure guides have to be athletic, relate well with others, and be good leaders. The best guides know the climate of the region and a little of its history and geography. They should also be familiar with the region's plants and animals, and they should know first aid and CPR.



For overnight hiking or camping trips, an adventure guide will recommend sleeping bags. Sleeping bags have temperature ratings that list the lowest temperature for which the bags are suitable.

Suppose an adventure guide is leading a fall color hiking trip. The overnight temperature may be as low as -10°C . There are sleeping bags with temperature ratings of 0°C , -5°C , and -15°C . Which bag should the guide recommend?

The sleeping bags rated 0°C and -5°C will not keep the hikers warm if the temperature drops to -10°C . The guide should recommend the bag rated -15°C .

Solve.

1. Three sleeping bags have temperature ratings of $+10^{\circ}\text{C}$, $+5^{\circ}\text{C}$, and -15°C . Which sleeping bag should hikers take if they expect the temperature to drop below freezing? Explain.
2. Three sleeping bags have temperature ratings of 0°C , $+5^{\circ}\text{C}$, and -10°C . Which sleeping bag should hikers take if they expect the temperature to be no less than 15°C ? Explain.
3. Order the temperature ratings 20°C , -5°C , 0°C , -10°C , and 15°C from greatest to least.