

# SPF Math: Sun Protection Factor

Being safe in the sun is very important. Did you know that the SPF number on sunscreen helps you know the amount of protection the sunscreen offers? It's true: the higher the SPF number is, the more you are protected from sunburn. And did you know that SPF and sun safety make for some fun (and challenging!) math problems? If you can add and subtract, you can answer these questions. And if you know multiplication, well, you'll shine like the sun while answering them!

✱ Maria and Erika plan to meet at an outdoor basketball court at 10:45 on Saturday morning to practice. If they want to put on sunscreen 30 minutes before they are supposed to be at the court, what time should they apply the sunscreen?

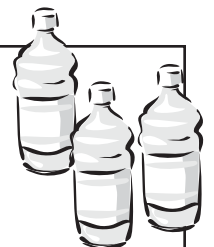
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✱ Maria and Erika know that they need to take a break for water and shade every 45 minutes. If they begin at 10:45, what time should they take their first break? \_\_\_\_\_



✱ Stan wants to go skateboarding all morning. The only sunscreen that he has is SPF 8, and Stan knows that with his skin type, sunscreen with SPF 8 protects him for about an hour. He first puts it on at 9:30, then again at 10:30. If he wants to stay outside until noon, how many more times should he apply the sunscreen? \_\_\_\_\_

✱ During the summer, Marcus, Phil, TJ, Kwame, Bobby, and Juan play soccer every day. One morning the forecast predicts a very hot day, so they want to make sure to bring along plenty of water to drink. Each one of them needs 2 quarts of water. How many total quarts of water should they bring? \_\_\_\_\_



✱ Bonus: If there are 4 quarts in a gallon, how many gallons will Marcus, Phil, TJ, Kwame, Bobby, and Juan bring with them? \_\_\_\_\_