**Problem of the Week # 6**

**Sweet Possibilities**

At Ahmed’s birthday party, his guests can build their own dessert. They start by choosing either a waffle cone, sugar cone or a bowl. Then they choose vanilla, chocolate, strawberry, or rocky road ice cream. Next, they add either chocolate sauce or sprinkles. Finally, they can add a cherry on top if they wish. 

| **container** | **Ice cream** | **Toppings** | **Cherry or Not** |
| --- | --- | --- | --- |
| Waffle cone | vanilla | Chocolate sauce | cherry |
| Sugar cone | chocolate | sprinkles | No cherry |
| bowl | strawberry |  |  |
|  | rocky road |  |  |

**How many different dessert combinations are possible if you have to choose one container, one ice cream, one topping and a cherry is optional?**

**Show your work using pictures, numbers or words.**