# Problem of the Week Problem C <br> <br> Balloon Breaker 

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A wall is covered with balloons. Each balloon has the number 5, 3 or 2 printed on it. You are given 7 darts to throw at the wall. If your dart breaks a balloon, then you earn the number of points printed on the balloon. If your dart does not break a balloon, then you are awarded 0 points for that shot. You win a prize if your total score is exactly 16 points on seven shots. If your total is over 16 or under 16 , then you lose.

Determine the number of different point combinations that can be used to win the game.



