



Problem of the Week Grade 9 and 10

Chocolate Anyone?

In preparation for Valentine's Day, Mr. Gee surveyed his class to determine what types of chocolate bars to buy. He determined the following: 16 students wanted milk chocolate bars, 8 requested dark chocolate bars and 6 wanted white chocolate bars.

On visiting the store Mr. Gee discovered that he could purchase the chocolate bars in variety packs to keep his costs down. Variety Pack A costs \$2.70 and contains 2 milk chocolate bars and 1 dark chocolate bar. Variety Pack B costs \$7.65 and contains 4 milk chocolate bars, 2 dark chocolate bars, and 3 white chocolate bars. Variety Pack C costs \$4.55 and contains 2 milk chocolate bars, 1 dark chocolate bar, and 3 white chocolate bars.

How many of each variety pack should Mr. Gee purchase in order to obtain exactly the correct number of chocolate bars for the lowest price?

