Problem

Ye Ming has just won a Canadian Falcon points card
which gives her points towards free clothes.

- If she spends $5 in one of their stores, she gets
  one point.

- A $10 purchase gives two additional points (i.e.,
  three in total).

- A $15 purchase gives another four additional
  points.

A new pair of jeans requires 350 points. How much
money does Ye Ming have to spend in order to receive
a total of 350 points? Is it worth it? Justify your
answer.

Hints

Hint 1 - How many points will Ye Ming have if she spends $15?

Hint 2 - How many $15 purchases would Ye Ming need to make to receive 350 points?

Solution

Ye Ming gets 1 point for spending \$5, $1 + 2 = 3$ points for spending \$10, and $3 + 4 = 7$ points for spending \$15, Since 350 points $= 50 \times 7$ points, to get the jeans, she would have to spend $50 \times \$15 = \$750$. Most 'tweens' would judge that to be not worth it!