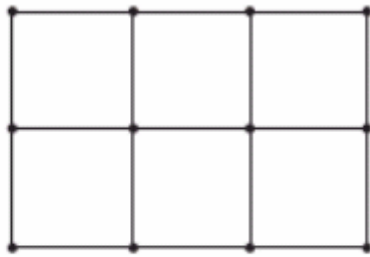


2010 TAPS Round 1

1. How many rectangles are in the following figure?



2. Two boys are discussing money.

Will: "How about lending me \$10?"

Tyler: "I can't, I spent some of it."

Will: "How much did you spend?"

Tyler: "Exactly $\frac{1}{4}$ of what I have left."

Will: "Good. That leaves you with just what I need to get my watch back from the watchmaker."

How much money did Tyler have left?

3. One step is missing from the following directions.

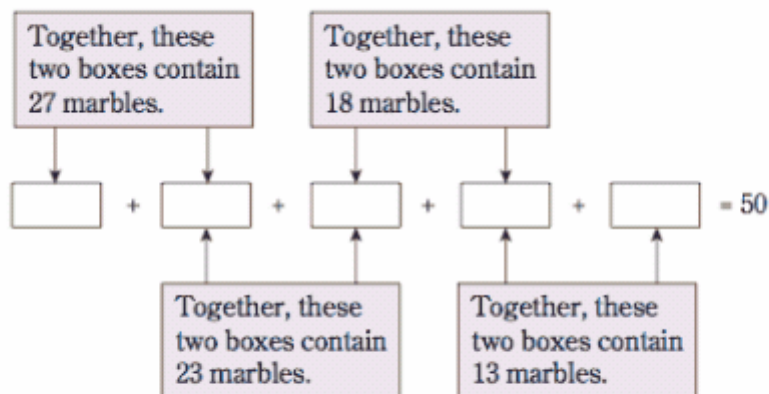
Start with your age as an integer, multiply it by 2, then subtract 3.

Next multiply that result by 3. At this point, a step is missing.

Finally, divide by 6, and you obtain your age as an answer.

What is the missing step?

4. There are 50 marbles in the five boxes below. How many marbles are in the last box?



5. In how many ways can you make change for \$20 using only quarters and dimes, with at least one of each coin being used?