Transcript of video Splitting Strategies

Vince: I've got a problem for you. You've got seventy-two beans.

(Seven canisters of ten beans and two loose beans placed on a tens frame)

Anne: Yes.

Vince: And I'm going to ask you to take away thirty-five beans and you can do that in any way you'd like.

Anne: Okay. I take away three tens.

(Taking away three canisters of ten beans each)

Vince: How many will that leave? How many beans will that leave?

Anne: Forty-two.

Vince: How do you know that?

Anne: Because there's four tens, forty, and two more.

(Showing four canisters of ten beans each and two loose ones)

Vince: And how many more must you take off?

Anne: Five.

Vince: Okay.

Anne: So if I take two off, now I have to take away three so I need to take three from a ten.

(Taking away the two loose beans and three from one of the canisters)

Vince: And how many will be left in that ten if you take three away?

Anne: Seven.

Vince: So how many will you have left altogether?

Anne: Thirty-seven.

(Calculating total number of beans left in the canisters)

Vince: Excellent.