



4.2 Video 4: Alex and Carly Engaging with Desmos' Avi and Benita's Repair Shop Task Transcript



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Transcript:

Carly: Oh, so it skips from 13, all the way up to 20.

Alex: So just double day 10? Maybe you wanna do that?

Carly: No, cause doubling day 10 would be day-

Alex: Yeah.

Carly: So.

Alex: We can just finish the pattern, so 40 to 96.

Carly: Here I got a calculator.

Alex: Yeah, just do that.

Alex: So if you double 40.96, that would be what?

Carly: Alright 40.96 times two.

Carly: He has 81.92.

Alex: And then, so that would be 14,

Alex: if you double that again, so.

[Time speeds up, and students type 5242.88 into the space for day 20 with Avi's rule.]

Carly: The number 5,242.

Alex: Yeah, there ya go, sorry.

Carly: And then for Benita's rule,

Carly: that would be 2000,

Carly: 20,000 actually.

Carly: No, just 2000, not 20,000.

[Student types 2000 into the space for day 20 with Benita's rule.]

Alex: Oh, so she did.

Carly: So we were wrong.

Carly: We were wrong.

Alex: We were doubling it.

Carly: Interesting. Okay.

Alex: Well I guess if he's doubling it,

Alex: then it would eventually get larger, and then.

Carly: Yeah.

Alex: Hmm.

[Time speeds up, and students go to the next page in the activity (page 7). They type "We are surprised that Avi paid more then 5000 which is more then 200 which is not what we predicted". Then, time proceeds normally.]

Carly: Benita is just going up by a hundred every time.

Carly: But because Carly -



Carly: I just said my own name.

Carly: Since Avi is going,

Carly: she's doubling every time.

Carly: In the beginning, yes,

Carly: she isn't going to have much,

Carly: but like, if you get it to 20,

Carly: you're getting paid

Carly: like 5,000 something dollars a day.

Carly: And then Day 21,

Alex: Yeah.

Carly: you're gonna get being paid

Carly: 10,000 something dollars, so.

Alex: Yeah.

Alex: So in particular, anything you're surprised by.

Carly: Yeah, so Avi, even though Avi,

[Student starts adding to the previous parts of their response, similar to what they are saying out loud.]

Carly: even though Avi's rule wasn't

Carly: wasn't producing very much money in the beginning,

Carly: it will start doing much more than

Carly: Um

Carly: much more than Benita because

Carly: She... um

Carly: Benita is just gonna go on a

Carly: steady plus 100 every time.

Carly: So Benita just has a straight line

Carly: and then Avi...line's just curving up.

Alex: So even though Avi's rule was increasing

Carly: So she'll have a straight line going up.

Alex: Yeah. Even though

Alex: Avi's rule was increasing slowly in the beginning,

Alex: It eventually surpassed...

Carly: It started having

Carly: bigger and bigger gaps in between the two points.

[Video speeds up and shows student finishing their response. The box now has "We are surprised that Avi paid more then 5000 which is more then 2000 which is not what we predicted. Even though Avi's rule was increasing slowly in the beginning it eventually surpassed Benita's rule of \$100 per day."]