**PASS scenario example: One-to-one PASS – Solving an electrical circuit problem**

Seb (PL):Hi Joe, how’s it going? What is your plan for today?

Joe: Good thanks. I am stuck trying to work out this problem, could you please help me?

Seb: Sure, let’s have a look together.

Joe: I have to calculate the resistor in this circuit. How does it work?

Seb: Have you had a look in the course text book for a similar circuit?

Joe: Yes, but my result is way too high.

Seb: In the last class the lecturer stressed how important it is to get the conversion of units right. Double check your calculations please.

Joe: Oh, I missed a zero here…but it still doesn’t seem right.

Seb: It is good that you can tell that it can’t be right, well done. Why do you think that is?

Joe: Now it seems too low.

Seb: The calculation is correct. Are you sure that you used the correct formula? Are the resistors in series or parallel?

Joe: There are resistors in series and parallel. I can’t remember how to start.

Seb: Check out your notes. Maybe you did a similar task in class.

Joe: Yes, we did. But my notes are not complete. Can you help me?

Seb: You could look at the lecturer’s PowerPoint slides on that, it’s in Moodle, or try to calculate both variations and see which looks more plausible.

Joe: Okay, I’ll get the lecturer’s slides from Moodle…\*writes notes\*

Seb: Okay good, I’ll get back to you in 5 minutes.

\*5 minutes later\*

Joe: I finished, could you have a look please?

Seb: \*calculates\* Great job! You got the correct result, well done!

Joe: Cool, thanks for your help!

Seb: Great that you‘ve got that done. So what do you need to do next?