A lesson on exponents
Introduction

• Introduce ourselves and FaSMEd

• What we are going to do in this session
Teaching and learning exponents: the design of this lesson

• learners find exponents difficult and boring

• exponents tend to be taught one law (rule) at a time

• this lesson is designed to
  • engage learners
  • while also covering all the laws
  • and addressing the question of when the laws can't be used
The task

- Card matching activity
- Expressions and solutions
- Not one-to-one
What to do
What one group did
Learners are engaged
The role of the teacher

• Creating a space for ‘productive struggle’

• Gathering information about the learners’ understandings
Don’t tell them the answers
Enough time
What you learn about the learners’ understanding
Misunderstandings revealed – what should you do?
Misunderstandings revealed – self-correcting
Thoughts and questions

• How does this activity support formative assessment?

• What are the students learning?

• What prior knowledge do they need?

• Are all learners engaged?