

"Exam 3" Boxes

It's almost over!

7.1 Ratios and Proportions

- definitions
- equivalent ratios
- ratios to fractions and back
- Teacher's solution for WPS

8.1 Negative Numbers

- models
- definition: $a < b$, $|a|$, $-a$
- teaching sequence for addition (with model, picture, interpretation)

9.2 Rational # & Decimals

- how to get decimal from fraction
- every rational # can be written as a finite or repeating decimal. why?

7.2 Changing Ratios + %

- changing ratios: before and after
- %: definition, phrases on page 175 of P&B (what is the whole unit?)
- Teacher's solution for WPS

8.2 Arithmetic w/Integers

- teaching sequences for $-$, \times , \div with model, picture, interpretation
- WPS with integers (on practice 3)

SKILLZ: mental math with integers

9.3 Real # & Decimals

- how to get decimal expansion
- definition irrational #
- operations on real #

7.3 The Unitary method

- equal percentages do not mean equal amounts! (Example 3.3)
- also read Exercise 3.5

8.3 Step towards Alg.

- definition of $-a$ as additive inverse
- inequalities

9.4 $\sqrt{2}$

- examples of irrational #'s, in particular $\sqrt{2}$

Newton's Method is not on the Exam

Chapter 9

- definition: whole #, integer, rational #, real #

7.4 Rates

- definition
- unit conversion
- 3 kinds of problem
 - Red Bull
 - driving there + back
 - work together

Solve each type.

9.1 Decimals

- place value
- models/pictures
- mult. and dividing by 10, 100, etc (place value work)
- algorithms and models for $+$, $-$, \times , \div
- teaching sequences

Some advice

- always make sure that you know while model, picture, or interpretation you would use to explain each concept [for the whole class, not just chaps 7-9]