What is in a fluency practice activity set?

Component of mathematical fluency reflected in the fluency connection

Mathematical topic and grade level for this set of fluency practice activities

Specific fluency practice activity title

Teacher notes describing how to facilitate each activity with students and any needed materials

Tasks provided to use as prompts for this activity

Fluency Practice: Multiple Representations of Linear Relationships, Grade 7

Fluency Connection:
A fluent student can quickly identify the coefficient of the variable term of an equation in the form $y = mx + b$ *as representing the rate of change for the linear relationship.*

Fluency Practice: Rate of Change from an Equation
Say: We will use our understanding of linear relationships to identify rates of change from equations. I will show you an equation and you will identify the rate of change on your whiteboard. Then, you will explain how you determined your answer.

Possible equations:

$y = 8.2x - 1.3$ $\quad y = 5.4 - 3x + 1 - 2x$ $\quad y = \frac{2}{3}x + 6.1$ $\quad y = \frac{3}{4}x + 3 + \frac{1}{2}x + 7$

Notes:

Space for teachers to record notes related to this activity, including implementation ideas, materials, student progress monitoring, etc.

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Fluency Practice: Multiple Representations of Linear Relationships, Grade 7

Rate of Change from an Equation

Title of fluency practice activity

$$y = 8.2x - 1.3$$

Up to two tasks per display page

$$y = 5.4 + 3x + 1 + 2x$$

Display pages formatted to facilitate digital projection using large font and landscape orientation

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