

Connecting Representations Instructional Routine Pre-Planner

Consider the Representations:

Explore the mathematical structure that the representations highlight. What are key features of the representations? How do they connect to big ideas of the content?





 $\frac{1}{2} + \frac{3}{4} + \frac{2}{8}$ $\frac{2}{3} + \frac{1}{4} + \frac{1}{12}$ $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$

When considering the representations, ask yourself:

What will students notice and think is important about the different representations?

How will they use those noticings to connect representations?

How might they connect representations incorrectly?

When considering the students, ask yourself:

Which representations will provide access to students?

Which representations will be challenging for students?

Which representation will students be connecting, and which one will you leave off for students to generate?



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