ACP

STRATEGY PLANNING

COMPLEX & MULTI-STEP
PROBLEM SOLVING

META-COGNITION

AUTOMATICITY

SELF-REGULATION

VAA

PERSEVERANCE

PRACTICE

Look at the problem below. Which of the VAAs/ACPs is most important when solving this problem?

Almost One

Age 11 to 14
Challenge Level ★

📄 *Almost One printable sheet*

Here is a set of six fractions:

$$\frac{1}{6} \quad \frac{1}{25} \quad \frac{3}{5} \quad \frac{3}{20} \quad \frac{4}{15} \quad \frac{5}{8}$$

Choose some of the fractions and add them together. You can use as many fractions as you like, but you can only use each fraction once.
Can you get an answer that is close to 1?
What is the closest to 1 that you can get?

Most important
1
2
3
4
Least important

COMPLEX & MULTI-STEP PROBLEM SOLVING

AUTOMATICITY

PERSEVERANCE

PRACTICE

Examples of student responses

- Automaticity is most important because without this you wont be able to add the fractions together easily. You will need to think too much about this to be able to solve the problem

- Problem solving skills are most important because this helps you to decide where to begin – and that's the hardest part.

- Practice is most important. If we hadn't done the practice with adding fractions we wouldn't be here solving this problem now

- Perseverance is most important because this problem is really tricky. I know if I persevere eventually I'll get the answer