

Objective: Solve addition and subtraction two step problems in contexts deciding which operations and methods to use and why

Year 4 Task:

Kitty, Paul and Alex are playing a computer game.

Their scores are:

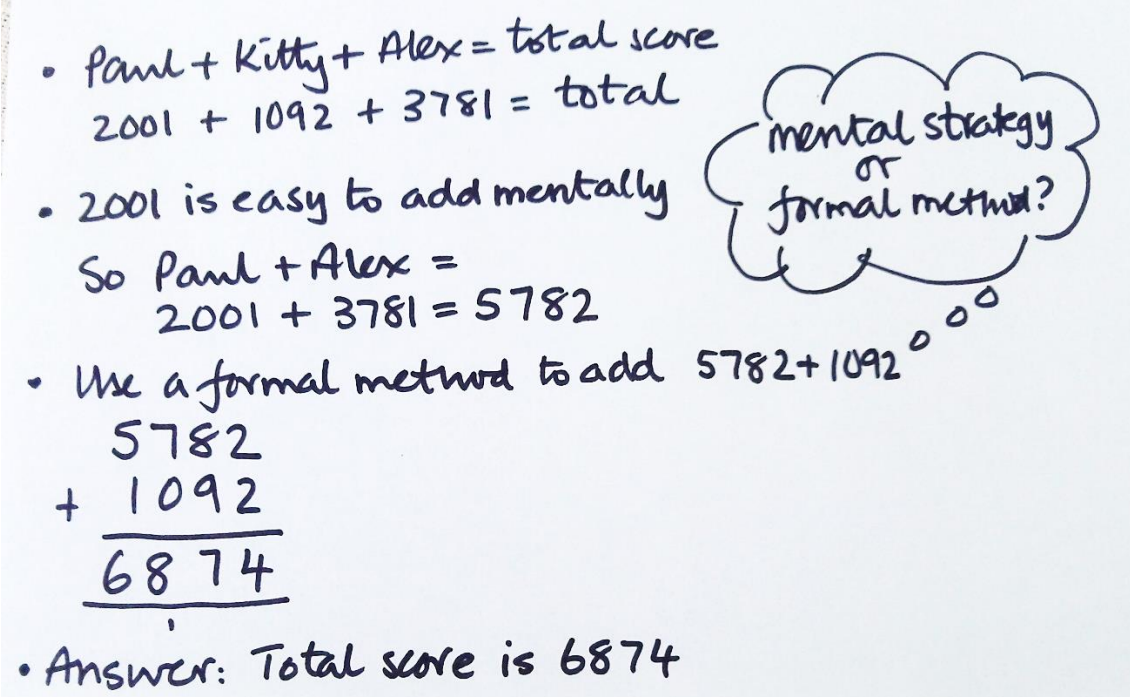
Paul: 2001

Kitty: 1092

Alex: 3781

What is the total of their scores?

Worked example



• Paul + Kitty + Alex = total score
 $2001 + 1092 + 3781 = \text{total}$

• 2001 is easy to add mentally
 So Paul + Alex =
 $2001 + 3781 = 5782$

• Use a formal method to add $5782 + 1092$

$$\begin{array}{r}
 5782 \\
 + 1092 \\
 \hline
 6874
 \end{array}$$

• Answer: Total score is 6874

mental strategy
 or
 formal method?

Variation

Kitty, Paul and Alex play the same game the next day.

This time their scores are:

Kitty: 250

Paul: 3006

Alex: 1797

What is the total of their scores? What is the difference in the scores for each of them compared to the day before?

Which parts of the calculations can you do mentally?

Answers: Total score: $250 + 3006 + 1797 = 5053$

Difference in scores: Kitty $1092 - 250 = 842$; Paul $3006 - 2001 = 1005$; Alex $3781 - 1797 = 1984$