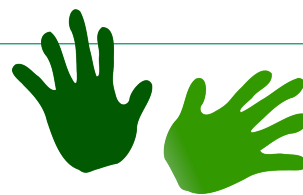


Investigation

Add and subtract near multiples

Things you will need:

- Add and subtract near multiples:
Set 1 and Set 2



Start with 5468

- Add near multiples to this number, then subtract near multiples from it.
- **Cut up and spread out** Set 1 of the 'Add and subtract near multiples' cards.
- Choose an **addition** card and decide what multiple of 10, 100 or 1000 it would be useful to add to 5468.

e.g.

Choose '+ 305 and + 299' add 300.
 $5468 + 300 = 5768$

- Now calculate $5468 + 305$ (add 5 more to 5768) and $5468 + 299$ (subtract 1 from 5768). *You can draw a number line to help: no adding in columns!*
- Repeat with three different addition cards, each time starting with 5468.
- Can you predict what the *difference* will be between your two answers?
- Repeat for **subtractions**.

e.g.

Choose '- 1005 and - 995'.
Subtract 1000: $5468 - 1000 = 4468$
How will you find $5468 - 1005$ and $5468 - 995$?

- Repeat for 3 more **subtraction** cards, each time starting with 5468.

Challenge

Start with 23,456 and use Set 2 of the 'Add and subtract near multiples' cards.

Investigation
Add and subtract near multiples: Set 1



$$\begin{array}{r} +23 \\ +19 \end{array}$$

$$\begin{array}{r} +51 \\ +48 \end{array}$$

$$\begin{array}{r} +102 \\ +98 \end{array}$$

$$\begin{array}{r} +305 \\ +299 \end{array}$$

$$\begin{array}{r} +2000 \\ +1997 \end{array}$$

$$\begin{array}{r} +1006 \\ +995 \end{array}$$

$$\begin{array}{r} -43 \\ -38 \end{array}$$

$$\begin{array}{r} -71 \\ -69 \end{array}$$

$$\begin{array}{r} -104 \\ -99 \end{array}$$

$$\begin{array}{r} -202 \\ -198 \end{array}$$

$$\begin{array}{r} -1005 \\ -995 \end{array}$$

$$\begin{array}{r} -2001 \\ -1999 \end{array}$$



Investigation

Add and subtract near multiples: Set 2



$$\begin{array}{r} +8002 \\ +7998 \\ \hline \end{array}$$

$$\begin{array}{r} +4005 \\ +3997 \\ \hline \end{array}$$

$$\begin{array}{r} +304 \\ +299 \\ \hline \end{array}$$

$$\begin{array}{r} +601 \\ +599 \\ \hline \end{array}$$

$$\begin{array}{r} +98 \\ +104 \\ \hline \end{array}$$

$$\begin{array}{r} +83 \\ +79 \\ \hline \end{array}$$

$$\begin{array}{r} -4001 \\ -3998 \\ \hline \end{array}$$

$$\begin{array}{r} -2004 \\ -1995 \\ \hline \end{array}$$

$$\begin{array}{r} -303 \\ -298 \\ \hline \end{array}$$

$$\begin{array}{r} -703 \\ -697 \\ \hline \end{array}$$

$$\begin{array}{r} -45 \\ -39 \\ \hline \end{array}$$

$$\begin{array}{r} -73 \\ -68 \\ \hline \end{array}$$

