Year 5/6 - Addition and Subtraction

Written Addition

$$45,85\textbf{3} + 23,46\textbf{3}$$
$$\textbf{6}$$
$$\downarrow$$

$$45,8\textbf{5}3 + 23,4\textbf{6}3$$
$$1\textbf{6}$$
$$_1$$
$$\downarrow$$

$$45,\textbf{8}53 + 23,\textbf{4}63$$
$$,\textbf{3}16 \rightarrow$$
$$_1$$

$$\textbf{4}5,853 + \textbf{2}3,463$$
$$\textbf{6}9,316$$

$$4\textbf{5},853 + 2\textbf{3},463$$
$$\textbf{9},316$$

Written Subtraction

$$80,13\textbf{4} - 33,24\textbf{1}$$
$$\textbf{3}$$
$$\downarrow$$

$$80,\textbf{1}34 - 33,\textbf{2}41$$
(with 0 above)
$$\textbf{9}3$$
$$\downarrow$$

$$80,\textbf{1}34 - 33,\textbf{2}41$$
$$,\textbf{8}93 \rightarrow$$

$$8\textbf{0},134 - 3\textbf{3},241$$
$$4\textbf{6},893$$

$$8\textbf{0},134 - 3\textbf{3},241$$
$$\textbf{6},893$$

Multi-step problems

A milkman has **250 bottles of milk**.

He collects **160 more** during the morning.

During his shift, he **delivers 375 bottles**.

How many bottles are remaining?

250 + **160** - **375** = ? = **35**

250	160
375	?

On **Monday**, Sophie ran **30km**.
On **Wednesday**, she ran **13km fewer** than **Monday**. On **Friday**, she ran **7km more** than **Wednesday**. **How far did she run that week**?

M **30km**   30km
W ? — 13km   30km - 13km = **17km**
F ?   **17km** + **7km** = **24km**
   7km

30km + **17km** + **24km** = **71km**

Mental +/-

Consider if a mental strategy would be better.
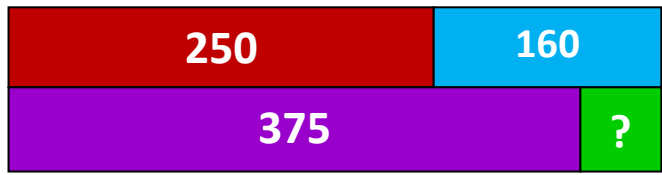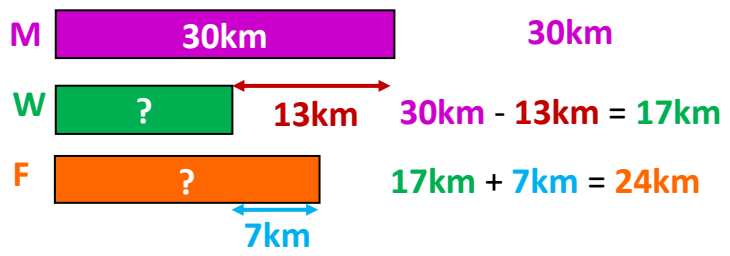**2,000 - 1,286** could be solved using written subtraction. However, counting up could be quicker.

$$1,28\underline{6} + \underline{4} = 1,290$$
$$1,2\underline{90} + \underline{10} = 1,300$$
$$1,\underline{300} + \underline{700} = 2,000$$

$$2,000 - 1,286 = 700 + 10 + 4 = 714$$

Inverse

$$3,453 + 4,649 = 8,102$$
$$8,102 - 4,649 = 3,453$$
$$8,102 - 3,453 = 4,649$$

8,102	
4,649	3,453