

## Investigation

### Lost logic

Look at this diagram. The numbers in each of the boxes are related to the numbers above, below, to the left and right. Each arrow represents an operation and its inverse.

12	$\leftrightarrow$	2	$\begin{matrix} \div 10 \\ \leftrightarrow \\ \times 10 \end{matrix}$	20
$\updownarrow$		$\updownarrow$		$\updownarrow$
3	$\leftrightarrow$		$\begin{matrix} \leftrightarrow \\ \times 5 \end{matrix}$	
$\updownarrow$		$\updownarrow$		$\updownarrow - 5$
	$\begin{matrix} \div 4 \\ \leftrightarrow \end{matrix}$	60	$\leftrightarrow$	35

1. Can you work out all of the missing numbers and operations?
2. Are there any numbers or operations that could have more than one answer?

$2 \times 10 = 20$

$20 \div 10 = 2$

$? \div 4 = 60$