Problem Solving
Y3/4

1

2
Challenge 14
With a partner, play a game of human robots.
Write a simple code for your partner to follow. Use the language of; move forward, move backward, quarter turn, half turn.
Check with your teacher where a good place is to play the game. You might need a bit of

Example code:
Move forward four steps fo??

Daily Maths

1

2
Challenge 15
12

3

4
Start at 500 .
Take off $12 \times 8$
Take away $45+14$
Subtract 150-67
5
Take away a final $34+46$
6
What number do you get?
7

8




## Learning the 9 Times Table the Easy Way!

$$
\begin{aligned}
1 \times 9 & =9 \\
2 \times 9 & =18 \\
3 \times 9 & =27 \\
4 \times 9 & =36 \\
5 \times 9 & =45 \\
6 \times 9 & =54 \\
7 \times 9 & =63 \\
8 \times 9 & =72 \\
9 \times 9 & =81 \\
10 \times 9 & =90 \\
11 \times 9 & =99 \\
12 \times 9 & =108
\end{aligned}
$$

What patterns can you see?

The number of nines is one more than the number of tens in the answer.

So, for $9 \times 6$ we know that the number of tens is one less than 6 (5) and we know that the tens and the ones add to make nine (4) so the answer must be 54 ! If you know your bonds to nine then the nine times table is easy!!

This is why the hand trick works!

The tens and ones add to make nine.
$9 \times 1=9$
$9 \times 2=18$
$9 \times 3=27$
$9 \times 4=36$
$9 \times 5=45$
$9 \times 6=54$
$9 \times 7=63$
$9 \times 8=72$
$9 \times 9=81$
$9 \times 10=90$
$9 \times 11=99$
$9 \times 12=108$

