

ANTARCTICA - TEACHING GUIDELINES

As with the previous passport, the skills of counting in 10s and 5s should be linked to the 10 and 5 times tables respectively. Children are expected to recall or write these times table facts within a couple of seconds - watch for those children counting on: look for fingers or nods of heads in particular!

Links should be made between the multiplication fact and the division fact and children made aware of the relationship between the two. When learning the 10x table, many children develop the misconception that they just 'add a zero' (which in itself is a misconception as adding zero does not change the value of a number) to the number and they get the correct answer. Although this seems to work for whole numbers, this 'shortcut' is challenged when multiplying decimal numbers by 10 (e.g. 10×6.3 does not equal 6.30). Thus it is useful at this stage for the children to develop an understanding of how multiplying by 10 makes each digit ten times bigger and therefore each digit appears to 'jump' one place to the left.

Finally, drawing on the skill of bonding to 10 mastered in the Europe passport, children also learn to bond multiples of 10 to 100 (e.g. $30+70$). Bonding to 100 is an essential skill in mental addition calculation strategies and children should be encouraged to use their number bonds which total 10 when learning this new skill.

TARGET	EXAMPLE QUESTIONS
I know by heart all multiplication facts for 10 up to 10×12	$10 \times 7 =$ What is 10 times 12? Multiply 10 by 9
I know by heart all division facts for 10 up to 120	What is 90 divided by 10? Share 70 by 10. $120 \div 10 =$
I know by heart all bonds of multiples of 10 up to 100	What number when added to 40 makes 100? 30 and how much more makes 100? 10 plus what number makes 100?
I can count forwards and backwards in multiples of 5	Starting at 0, count in fives up to 100 Count back in fives from 75 to 0 What is 5 more/less than 35?
I know by heart all multiplication facts for 5 up to 5×12	$5 \times 8 =$ What is 5 times by 5? Multiply 5 by 12
I know by heart all division facts for 5 up to 60	What is 35 divided by 5? Share 25 by 5. $40 \div 5 =$