

Mastering Multiples: Max's Times Table Challenge

Learning objective: To recall and use multiplication and division facts for multiplication tables up to 12×12 , with a focus on speed, accuracy, and applying knowledge to reasoning problems.

Use these flashcards to test your fluency with times tables. For the Greater Depth questions, explain your mathematical reasoning clearly.

What is the product of 7 and 8?	Max has 12 boxes of 9 pencils. How many pencils does he have in total?
56	108
If $6 \times 9 = 54$, what is $54 \div 6$?	What is 11 squared (11^2)?
9	121
Calculate 0.7×8 .	Explain why 4×12 is the same as 8×6 .
5.6	Both calculations result in a product of 48. This demonstrates the associative property where doubling one factor and halving the other keeps the product the same.
Justify your answer: Is 144 a multiple of 12?	Compare and contrast: How does knowing 6×7 help you solve 60×7 ?
Yes, because $12 \times 12 = 144$. It is the square of 12.	$6 \times 7 = 42$. Since 60 is ten times larger than 6, the product must also be ten times larger, resulting in 420.
What might happen if you use the inverse operation to check $132 \div 11$?	Max buys 9 notebooks at £4.50 each. Use your times table knowledge to calculate the total cost.
You would calculate 12×11 . If the result is 132, you have verified that your division was correct.	£40.50 ($9 \times 4 = 36$; $9 \times 0.50 = 4.50$; $36 + 4.50 = 40.50$).