

Extra Maths Challenges: Monday 18th January 2021

Complete the table below to demonstrate that multiplying by 8 is the same as doubling, doubling and doubling again.

5	5	5	5	5	5	5	5
$5 \times 2 = 10$	$5 \times 2 = 10$	$5 \times 2 = ___$	$5 \times 2 = ___$				
$10 \times 2 = 20$		$___ \times 2 = ___$					
$___ \times 2 = ___$							

Complete the table below to demonstrate that multiplying by 8 is the same as doubling, doubling and doubling again.

7	7	7	7	7	7	7	7
$7 \times 2 = ___$	$7 \times 2 = ___$	$7 \times 2 = ___$	$7 \times 2 = ___$				
$___ \times 2 = ___$		$___ \times 2 = ___$					
$___ \times 2 = ___$							

Complete the number sentences below.

$$8 \times 5 =$$

$$2 \times 4 \times 5 =$$

$$2 \times 2 \times 2 \times 5 =$$

What have you noticed?

Explain what you think has happened.

Evaluation:



I prefer calculating 8×8 by completing $8 \times 4 \times 2$, rather than 5×8 and 3×8 and adding the two results together.

Which strategy do you prefer?

Explain your response.

TRUE OR FALSE?



8×8 is the same as $4 \times 8 \times 2$

0 4 8 45 12 31 24 44 40

Multiples of 4

Multiples of 8

