



KIRF: 6 & 9 times table (\times and \div)

Pupils should already be able to count forwards and backwards in 6s and 9s; now they need to apply that knowledge to multiplication facts. They should be able to answer these questions in any order, including missing number questions, e.g. $_ \times 6 = 18$

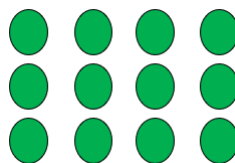
What can this look like?

Concrete:



$$6 \times 2 = 12$$

Pictorial:



Abstract:

$1 \times 6 = 6$	$6 \div 6 = 1$	$9 \times 1 = 9$	$9 \div 9 = 1$
$2 \times 6 = 12$	$12 \div 6 = 2$	$9 \times 2 = 18$	$18 \div 9 = 2$
$3 \times 6 = 18$	$18 \div 6 = 3$	$9 \times 3 = 27$	$27 \div 9 = 3$
$4 \times 6 = 24$	$24 \div 6 = 4$	$9 \times 4 = 36$	$36 \div 9 = 4$
$5 \times 6 = 30$	$30 \div 6 = 5$	$9 \times 5 = 45$	$45 \div 9 = 5$
$6 \times 6 = 36$	$36 \div 6 = 6$	$9 \times 6 = 54$	$54 \div 9 = 6$
$7 \times 6 = 42$	$42 \div 6 = 7$	$9 \times 7 = 63$	$63 \div 9 = 7$
$8 \times 6 = 48$	$48 \div 6 = 8$	$9 \times 8 = 72$	$72 \div 9 = 8$
$9 \times 6 = 54$	$54 \div 6 = 9$	$9 \times 9 = 81$	$81 \div 9 = 9$
$10 \times 6 = 60$	$60 \div 6 = 10$	$9 \times 10 = 90$	$90 \div 9 = 10$
$11 \times 6 = 66$	$66 \div 6 = 11$	$9 \times 11 = 99$	$99 \div 9 = 11$
$12 \times 6 = 72$	$72 \div 6 = 12$	$9 \times 12 = 108$	$108 \div 9 = 12$

Questions to ask at home

What is 6 multiplied by 7?

What is 9 times 8?

What is 54 divided by 9?

Key vocabulary

9 multiplied by 4 is equal to 36

2 times 6 and 6 times 2 are equivalent

54 shared by 6 is equal to 9

72 divided by 9 equals 8

Things to try

Chanting: Say the times table facts out loud, 1 times 9 is 9, 2 times 9 is 18 etc.

Shout it out! One child calls a number from 1–12. Others race to shout the answer to $6x$ or $9x$ that number. Make it competitive or play in teams.

Websites:

<https://www.topmarks.co.uk/maths-games/hit-the-button>