

Human Calculator Support Guide



You need to be confident with your multiplication tables up to 12×12 to begin this certificate

Human Calculator

Working out connected multiplication and division facts:

Related facts – for example, 7 times table and related division facts, children can give answers to questions in their 70, 700, 0.7, 0.07 times tables inc. $0.7 \times 5 = ?$, $800 \times 30 = ?$, etc.

Children are also expected to know that any number multiplied by 0 is 0; that a number multiplied or divided by 1 is the original number and that three numbers can be multiplied together in any order (the commutative law)

[Click here for information on multiplication](#)

Related multiplication tables and division facts

[Multiplying multiples of 10 worksheets](#) (definitely try [this](#))

[Video to support multiplying by multiples of 10](#)

[Multiplying decimals using known facts](#)

[Video to multiply decimals using known facts](#)

[Click to learn about the commutative law](#)

[GHPS multiply using known facts, multiples of 10 and decimals](#)

Children need to become confident applying their multiplication tables to questions with multiples of 10 and decimals.

Laws of multiplication

[Multiplying by 1 and 0](#)

[Multiplying three single-digit numbers](#)

[Multiplying three single-digit numbers worksheet](#)

[GHPS multiplying by 1 and 0 / multiply three single-digit numbers](#)

Children need to become confident multiplying and dividing by 1, multiplying by 0 and multiplying three single-digit numbers.

For Human Calculator tests, children are encouraged to work quickly and use mental methods and jottings to support their calculations.

Useful videos

- [Watch a pupil tackle a Human Calculator test](#)