

In this unit we will ...

- Compare multiplication and division statements using inequality signs
- Use known multiplication facts to solve other multiplication problems
- Find multiplication and division fact families Learn to multiply and divide by partitioning
- Solve mixed multiplication and division problems including multi-step problems

How does this unit build on prior learning?

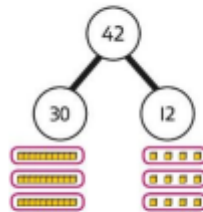
In this unit children develop their understanding of the multiplicative properties of numbers. This unit follows their learning about multiplication and division and precedes their work on money.

Before they start this unit it is expected that children:

- are familiar with different concrete and visual representations for multiplying by 2, 3, 4, 5 and 10
- can share and group numbers that occur in the 2, 3, 4, 5 and 10 times-tables, making links between the 2 and 4 times-tables and the 4 and 8 times-tables
- can solve problems involving multiplication and division
- can solve division problems leading to remainders.

$1 \times 3 = 3$	$1 \times 4 = 4$	$1 \times 8 = 8$
$2 \times 3 = 6$	$2 \times 4 = 8$	$2 \times 8 = 16$
$3 \times 3 = 9$	$3 \times 4 = 12$	$3 \times 8 = 24$
$4 \times 3 = 12$	$4 \times 4 = 16$	$4 \times 8 = 32$
$5 \times 3 = 15$	$5 \times 4 = 20$	$5 \times 8 = 40$
$6 \times 3 = 18$	$6 \times 4 = 24$	$6 \times 8 = 48$
$7 \times 3 = 21$	$7 \times 4 = 28$	$7 \times 8 = 56$
$8 \times 3 = 24$	$8 \times 4 = 32$	$8 \times 8 = 64$
$9 \times 3 = 27$	$9 \times 4 = 36$	$9 \times 8 = 72$
$10 \times 3 = 30$	$10 \times 4 = 40$	$10 \times 8 = 80$
$11 \times 3 = 33$	$11 \times 4 = 44$	$11 \times 8 = 88$
$12 \times 3 = 36$	$12 \times 4 = 48$	$12 \times 8 = 96$

I need to partition 42 differently to divide by 3.



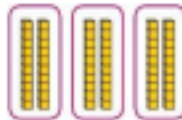
$$42 = 30 + 12$$

$$42 \div 3 = 14$$

Make 6 ones divided by 3.



Now make 6 tens divided by 3.



Year 3 Multiplication and Division

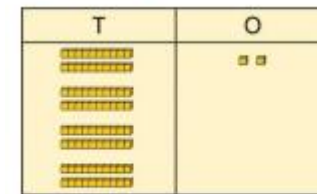
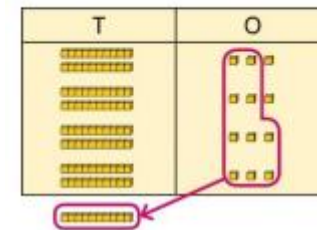
National Curriculum Link – Year 3 multiplication and division:

- Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.
- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
- Recall multiplication and division facts for multiplication tables up to 12×12 (3, 4 and 8)
- Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

Key Vocabulary

multiplication	adding the same number together a number of times
division	putting a group of things into equal parts
compare	finding the difference between numbers
remainder	what's left over
share	equal amounts are given out to different parties
group	put equal amounts into a party
multi-step	more than one step

$$4 \times 23 = ?$$



$$4 \times 23 = 92$$

$$29 \div 2 = ?$$



$$29 \div 2 = 14 \text{ remainder } 1$$

Maths at Alice Ingham