



Year 3 Parakeets

Maths

Autumn 2



Addition and Subtraction

Multiplication and Division

Key Vocabulary

Definition

Addition and Subtraction

Addition	The action of adding numbers together resulting in the answer being bigger $3+7=10$
Commutative	Meaning you can reverse the numbers and get the same result. E.g., $5+8=13$ $8+5=13$
Compare	Point out or describe similarities and differences
Digit	Any numeral from 0-9 which helps to form a whole number
Estimate	A rough or educated guess
Exchanging	The act of giving or taking one thing in return for another.
Partition	Splitting a whole number using place value, e.g., partition 354 into 3 hundred, 5 tens and 4 ones.
Subtraction	The action of taking one number away from another resulting in the answer being smaller.

Multiplication and Division

Array	The grouping of objects that displays rows and columns to create a multiplication sentence.
Difference	How many numbers between one number and the other.
Division	To divide or division is sharing or grouping a number into equal parts.
Grouping	Dividing things into equal groups or sets.
Multiplication	A mathematical operation where a number is added to itself a number of times.
Sharing	Dividing into equal groups.

Arrays

	1	2	3	4
1				
2				
3				

3 rows of 4 is the same as $3 \times 4 = 12$ which is the same as $4 \times 3 = 12$

Any multiplication can be solved using repeated addition $3+3+3+3=12$.

Column addition

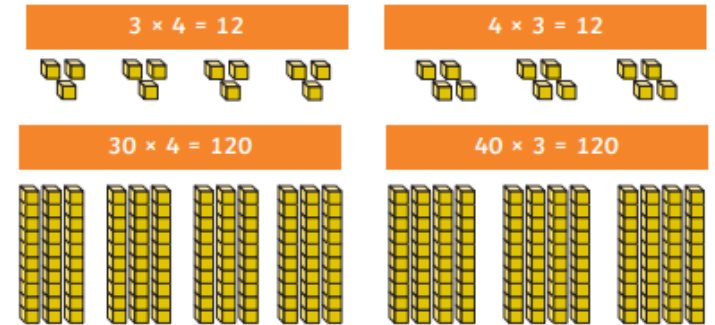
$$\begin{array}{r} \text{Tens} \quad \text{Ones} \\ 3 \quad 5 \\ + 4 \quad 2 \\ \hline 7 \quad 7 \end{array}$$

Column subtraction

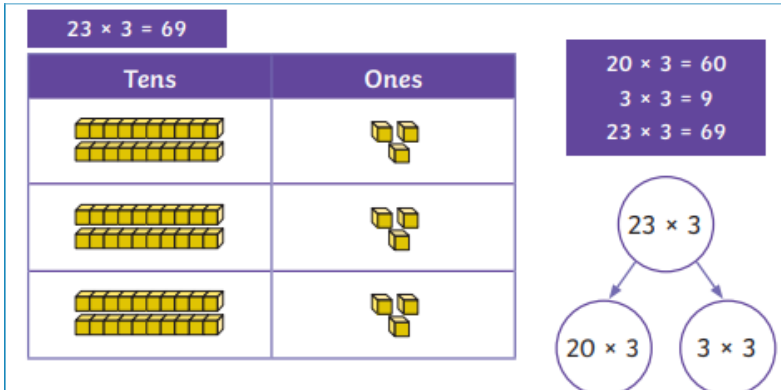
$$\begin{array}{r} \text{Tens} \quad \text{Ones} \\ - 7 \quad 7 \\ 4 \quad 2 \\ \hline 3 \quad 5 \end{array}$$

Related calculations

Using your number sense can help you with equations you do not already know.



Multiplication methods with no regrouping



Grouping

5 groups of 4 apples = 20 apples
 $5 \times 4 = 20$
20 apples shared in to 5 groups is 4 apples per group.
E.g., $20 \div 5 = 4$

