

Maths - Addition and Subtraction

- ### Lesson sequence
1. Fact Families
 2. Related Facts
 3. Bonds within 100
 4. Add and subtract 1s
 5. Add by making 10
 6. Add 3 1-digit numbers
 7. Add and subtract across 10
 8. Add and subtract 2 2-digit numbers
 9. Compare number sentences
 10. Missing number problems

- ### Key Vocabulary
- Ones
 - Tens
 - Digit
 - Addition
 - Add
 - More
 - Total / Altogether / Sum
 - Check
 - Make
 - Compare
 - Related facts
 - Fact family
 - Inverse
 - Relationship
 - Patterns
 - Number track
 - Combined
 - Commutativity/commutative

Sticky learning	New Skills
<h4 style="text-align: center; margin: 0;">New Knowledge</h4> <ul style="list-style-type: none"> To know the = sign means equals to To know and recall addition subtraction facts to 20 fluently To know that addition of two numbers can be done in any order (commutative) To know that subtraction is not commutative To know that there is a relationship between addition and subtraction and we call this the inverse To know that the sum of two numbers is the answer you get when you add them both together 	<h4 style="text-align: center; margin: 0;">New Skills</h4> <ul style="list-style-type: none"> To use place value and number facts to solve problems To partition numbers in different ways (for example, $23 = 20 + 3$ and $23 = 10 + 13$) to support subtraction To use addition and subtraction facts to 20 to derive related facts up to 100 To add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones, a two-digit number and tens, two two-digit numbers and adding three one-digit numbers To show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot To use the inverse relationship between addition and subtraction to check calculations and solve missing number problems; To solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures To apply their increasing knowledge of mental and written methods To record addition and subtraction in columns;

● = 10 ▲ = 20 ■ = 30

■ + ▲ = 50

● + ■ = 40

▲ + ● = 30

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Add three 1-digit numbers

Represent each calculation used in the table below.

Ten frames:

Number sentences:

$5 + 3 + 1 = 12$
 $12 = 5 + 3 + 1$

Draw it:

16	
11	5

$6 + 11 = 17$

$11 + 6 = 17$

$17 - 6 = 11$

$17 - 11 = 6$

$5 + 9 = 14$

$5 + 9 = 14$ so $10 + 4 = 14$