

Column Arithmetic Widget Proofs

Addition carry rows and subtraction borrow superscripts across whole numbers, decimals, zeros, and longer examples.

Column addition

no carry

	Hundreds	Tens	Units
	3	1	6
+		3	2
	3	4	8

single carry row

	Hundreds	Tens	Units
	7	5	8
+	3	2	7
	10	8	5
		1	

carry into hundreds

	Hundreds	Tens	Units
	4	5	2
+	3	7	7
	8	2	9
	1		

decimal carry

	Tens	Units	.	Tenths
	1	2	.	3
+		1	.	9
	1	4	.	2
		1		

decimal with zeros

	Tens	Units	.	Tenths	Hundredths
	2	5	.	0	8
+		4	.	9	2
	3	0	.	0	0
	1	1		1	

longer whole number

	Thousands	Hundreds	Tens	Units
	9	8	7	6
+	5	4	3	2
	15	3	0	8
	1	1		

Column subtraction

no borrow

	Hundreds	Tens	Units
	3	6	5
-		4	2
	3	2	3

one borrow

	Hundreds	Tens	Units
	7	⁴ 5	¹ 3
-	3	2	6
	4	2	7

borrow across zero

	Thousands	Hundreds	Tens	Units
	⁷ 8	⁹ 0	⁹ 0	¹ 2
-	4	5	6	7
	3	4	3	5

decimal borrow

	Units	.	Tenths	Hundredths
	9	.	² 3	¹ 6
-	0	.	2	8
	9	.	0	8

decimal zeros

	Tens	Units	.	Tenths	Hundredths
	2	⁴ 5	.	⁹ 0	¹ 0
-		4	.	2	3
	2	0	.	7	7

longer decimal

	Hundreds	Tens	Units	.	Tenths	Hundredths
	⁰ 1	⁹ 0	⁹ 0	.	⁹ 0	¹ 0
-		3	7	.	4	8
	0	6	2	.	5	2

Scale checks

addition 10 pt

	Hundreds	Tens	Units
	7	5	8
+	3	2	7
	10	8	5
		1	

addition 16 pt

	Hundreds	Tens	Units
	7	5	8
+	3	2	7
	10	8	5
		1	

subtraction 10 pt

	Hundreds	Tens	Units
	7	45	13
-	3	2	6
	4	2	7

subtraction 16 pt

	Hundreds	Tens	Units
	7	45	13
-	3	2	6
	4	2	7