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3.OA.D.9 Addition Patterns

3.OA.D.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.

Complete the addition patterns over increasing value.

1. $3 + 2 =$ _____ $30 + 20 =$ _____ $300 + 200 =$ _____ $3{,}000 + 2{,}000 =$ _____	2. _____ $+ 3 = 8$ _____ $+ 30 = 80$ _____ $+ 300 = 800$ _____ $+ 3{,}000 = 8{,}000$	3. _____ $+ 7 = 9$ _____ $+ 70 = 90$ _____ $+ 700 = 900$ _____ $+ 7{,}000 = 9{,}000$
4. $11 +$ _____ $= 25$ $110 +$ _____ $= 250$ $1{,}100 +$ _____ $= 2{,}500$ $11{,}000 +$ _____ $= 25{,}000$	5. $4 +$ _____ $= 12$ $40 +$ _____ $= 120$ $400 +$ _____ $= 1{,}200$ $4{,}000 +$ _____ $= 12{,}000$	6. $12 + 2 =$ _____ $120 + 20 =$ _____ $1{,}200 + 200 =$ _____ $12{,}000 + 2{,}000 =$ _____
7. $14 +$ _____ $= 16$ $140 +$ _____ $= 160$ $1{,}400 +$ _____ $= 1{,}600$ $14{,}000 +$ _____ $= 16{,}000$	8. $6 + 3 =$ _____ $60 + 30 =$ _____ $600 + 300 =$ _____ $6{,}000 + 3{,}000 =$ _____	9. $15 +$ _____ $= 19$ $150 +$ _____ $= 190$ $1{,}500 +$ _____ $= 1{,}900$ $15{,}000 +$ _____ $= 19{,}000$

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Answer Key

3.OA.D.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.

Complete the addition patterns over increasing value.

1.	2.	3.
3 + 2 = 5 30 + 20 = 50 300 + 200 = 500 3,000 + 2,000 = 5,000	5 + 3 = 8 50 + 30 = 80 500 + 300 = 800 5,000 + 3,000 = 8,000	2 + 7 = 9 20 + 70 = 90 200 + 700 = 900 2,000 + 7,000 = 9,000
4.	5.	6.
11 + 14 = 25 110 + 140 = 250 1,100 + 1,400 = 2,500 11,000 + 14,000 = 25,000	4 + 8 = 12 40 + 80 = 120 400 + 800 = 1,200 4,000 + 8,000 = 12,000	12 + 2 = 14 120 + 20 = 140 1,200 + 200 = 1,400 12,000 + 2,000 = 14,000
7.	8.	9.
14 + 2 = 16 140 + 20 = 160 1,400 + 200 = 1,600 14,000 + 2,000 = 16,000	6 + 3 = 9 60 + 30 = 90 600 + 300 = 900 6,000 + 3,000 = 9,000	15 + 4 = 19 150 + 40 = 190 1,500 + 400 = 1,900 15,000 + 4,000 = 19,000