

PRACTICE MENTAL ADDITION

(The units of these numbers are assumed to be the same.)

NOTE: Use the techniques of mental addition learned in earlier lessons.

1. Add the following from left to right and then from right to left. See if you get the same answer.

- | | |
|-------------------------------------|-------------------------------------|
| (a) $2 + 3 + 8 + 7 + 6 + 4 + 8 + 9$ | (d) $8 + 7 + 5 + 9 + 6 + 7 + 2 + 7$ |
| (b) $7 + 9 + 3 + 8 + 1 + 8 + 9 + 2$ | (e) $5 + 6 + 3 + 5 + 4 + 8 + 9 + 9$ |
| (c) $3 + 6 + 6 + 4 + 1 + 2 + 7 + 8$ | |

Answer: (a) 47 (b) 47 (c) 37 (d) 47 (e) 49

2. Add the following mentally writing down only the answers. Then compare the answers with those given below.

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|---------------|---------------|---------------|---------------|---------------|
| (a) $32 + 11$ | (e) $77 + 13$ | (i) $28 + 14$ | (m) $25 + 23$ | (q) $48 + 26$ |
| (b) $53 + 13$ | (f) $33 + 17$ | (j) $37 + 15$ | (n) $44 + 33$ | (r) $68 + 25$ |
| (c) $28 + 16$ | (g) $58 + 13$ | (k) $48 + 14$ | (o) $35 + 25$ | |
| (d) $37 + 22$ | (h) $65 + 15$ | (l) $59 + 17$ | (p) $67 + 27$ | |

Answer: (a) 43 (b) 66 (c) 44 (d) 59 (e) 90 (f) 50 (g) 71 (h) 80 (i) 42 (j) 52 (k) 62 (l) 76 (m) 48 (n) 77 (o) 60 (p) 94 (q) 74 (r) 93

3. Count by 2, 3, 4, 5, 6, 7, 8, 9, and 10 using repeated addition. For example, to count by 2, you shall count 2, 4, 6, 8, and so on, by repeatedly adding 2. Write down the first ten counts in columns, and then check them against the table below. If possible, do this exercise several times until you can mentally add rapidly.

Repeated Addition

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200

4. Fill in the blanks (Check your answers on a calculator).

- (a) $8 + \underline{\quad} = 13$ (b) $12 + \underline{\quad} = 19$ (c) $23 + \underline{\quad} = 28$ (d) $59 + \underline{\quad} = 62$

End of Lesson