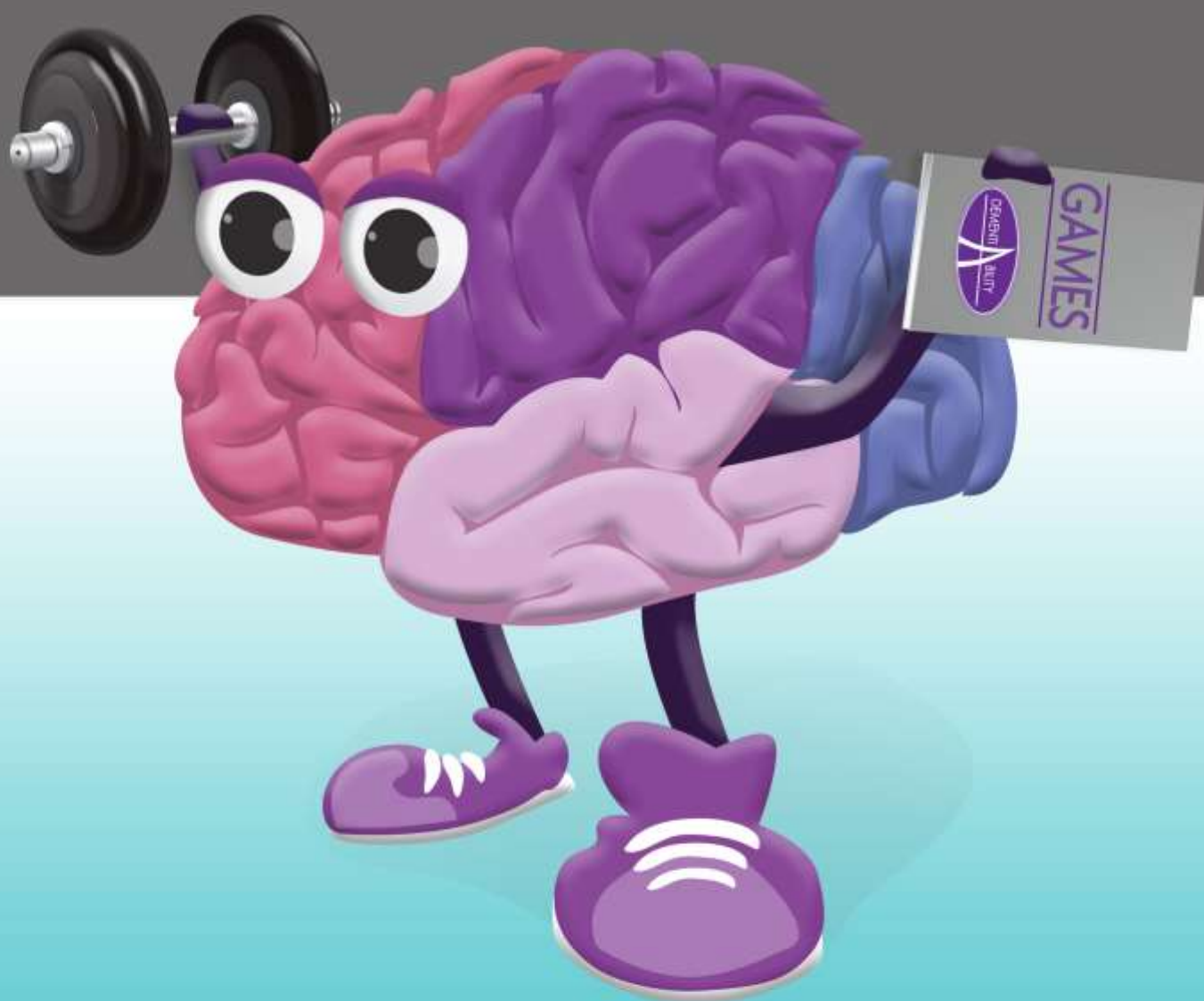


MATH MASTER

The Work It Series

SHAPING THE NEUROPLASTIC COGNITIVELY IMPAIRED BRAIN



GAMES FOR COGNITIVE STIMULATION

About This Book

The 'Work It' series has been created to provide opportunities for people with dementia to stimulate their brains. In other words, let's 'work it'! Much of the decline that we see in dementia arises due to disuse. Research on the neuroplasticity of the brain, and on excess disability, clearly indicates that cognitive capacity can be enhanced when the brain is stimulated. Using DementiAbility Methods: The Montessori Way™, the emphasis is placed on presenting the activity to a person at his or her level of ability. The math problems in this booklet are presented with the easiest ones at the beginning of the book and then the level of difficulty increases as you move through the book. The easy ones may be too easy for people in the earlier stages of dementia, but may be a good starting place for all. If they are too easy, simply move onto Level 2. The answer key is presented at the bottom of each page.

This book provides just one set of games in our 'Work It' series. Be sure to check out our other titles including TRIVIA QUESTIONS and WORD SEARCHES. We also have the 'Carry on Reading' series, which are books that have been created in large print for people with dementia.



Work it and have fun!

Sincerely,

Gail Elliot

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DementiAbility Enterprises Inc. © 2012

ISBN: 978-1-926511-04-7

Published by: DementiAbility Enterprises Inc., Oakville, ON
www.dementiability.com

Level 1 – Single Digit Addition - Good Luck!

1.
$$\begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 2 \\ + 1 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 4 \\ + 0 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$$

Answers:

1. (13) 2. (10) 3. (7) 4. (3) 5. (2) 6. (4)
7. (18) 8. (16) 9. (14)

10.

$$\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 2 \\ + 4 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$$

Answers:

10. (12) 11. (8) 12. (10) 13. (6) 14. (14) 15. (0)

16. (6) 17. (1) 18. (8)

19.

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 3 \\ + 9 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

Answers:

19. (9) 20. (6) 21. (12) 22. (10) 23. (8) 24. (12)

25. (9) 26. (14) 27. (8)

Level 2 - Double Digit Addition - Good Luck!

1.
$$\begin{array}{r} 13 \\ + 25 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 19 \\ + 10 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 13 \\ + 14 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 12 \\ + 11 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 11 \\ + 11 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 14 \\ + 80 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 19 \\ + 80 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 18 \\ + 21 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 71 \\ + 27 \\ \hline \end{array}$$

Answers:

1. (38) 2. (29) 3. (27) 4. (23) 5. (22) 6. (94)

7. (99) 8. (39) 9. (98)

10.

$$\begin{array}{r} 26 \\ + 32 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 63 \\ + 26 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 71 \\ + 23 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 30 \\ + 60 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 19 \\ + 40 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 33 \\ + 66 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 55 \\ + 44 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 44 \\ + 22 \\ \hline \end{array}$$

Answers:

**10. (58) 11. (89) 12. (94) 13. (90) 14. (59) 15. (99)
16. (99) 17. (20) 18. (66)**

19.

$$\begin{array}{r} 61 \\ + 32 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 15 \\ + 11 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 23 \\ + 36 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 20 \\ + 18 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 71 \\ + 11 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 40 \\ + 48 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 39 \\ + 40 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 61 \\ + 28 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 17 \\ + 10 \\ \hline \end{array}$$

Answers:

19. (93) 20. (26) 21. (59) 22. (38) 23. (82) 24. (88)

25. (79) 26. (89) 27. (27)

Level 3 - Double Digit Addition - Good Luck!

1.
$$\begin{array}{r} 88 \\ + 74 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 27 \\ + 18 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 19 \\ + 18 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 72 \\ + 89 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 99 \\ + 99 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 86 \\ + 54 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 20 \\ + 90 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 10 \\ + 99 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 71 \\ + 29 \\ \hline \end{array}$$

Answers:

1. (162) 2. (45) 3. (37) 4. (161) 5. (198) 6. (140)

7. (110) 8. (109) 9. (100)

10.

$$\begin{array}{r} 86 \\ + 35 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 65 \\ + 96 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 78 \\ + 33 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 30 \\ + 80 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 79 \\ + 40 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 34 \\ + 86 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 55 \\ + 55 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 19 \\ + 19 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 44 \\ + 88 \\ \hline \end{array}$$

Answers:

10. (121) 11. (161) 12. (111) 13. (110) 14. (119) 15. (120)

16. (110) 17. (38) 18. (132)

19.

$$\begin{array}{r} 63 \\ + 52 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 18 \\ + 23 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 26 \\ + 36 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 28 \\ + 18 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 71 \\ + 81 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 48 \\ + 48 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 39 \\ + 80 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 61 \\ + 68 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 27 \\ + 70 \\ \hline \end{array}$$

Answers:

19. (115) 20. (41) 21. (62) 22. (46) 23. (152) 24. (96)

25. (119) 26. (129) 27. (97)

Level 4 - Three Digit Addition - Good Luck!

1.
$$\begin{array}{r} 100 \\ + 274 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 270 \\ + 101 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 109 \\ + 510 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 272 \\ + 111 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 199 \\ + 911 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 485 \\ + 504 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 202 \\ + 190 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 100 \\ + 200 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 499 \\ + 500 \\ \hline \end{array}$$

Answers:

1. (374) 2. (371) 3. (619) 4. (383) 5. (1110) 6. (989)
7. (392) 8. (300) 9. (999)

10.

$$\begin{array}{r} 861 \\ + 135 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 265 \\ + 124 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 466 \\ + 333 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 103 \\ + 800 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 179 \\ + 400 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 341 \\ + 146 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 150 \\ + 150 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 180 \\ + 110 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 714 \\ + 281 \\ \hline \end{array}$$

Answers:

**10. (996) 11. (389) 12. (799) 13. (903) 14. (579) 15. (487)
16. (300) 17. (290) 18. (995)**

19.

$$\begin{array}{r} 413 \\ + 572 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 166 \\ + 223 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 526 \\ + 373 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 210 \\ + 108 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 101 \\ + 810 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 128 \\ + 470 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 309 \\ + 180 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 600 \\ + 300 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 270 \\ + 700 \\ \hline \end{array}$$

Answers:

19. (985) 20. (389) 21. (899) 22. (318) 23. (911)
24. (598) 25. (489) 26. (900) 27. (970)

Level 5 - Three Digit Addition - Good Luck!

1.

$$\begin{array}{r} 166 \\ + 949 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 278 \\ + 436 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 199 \\ + 518 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 299 \\ + 136 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 999 \\ + 222 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 485 \\ + 525 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 227 \\ + 198 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 159 \\ + 259 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 499 \\ + 599 \\ \hline \end{array}$$

Answers:

1. (1,115) 2. (714) 3. (717) 4. (435) 5. (1,221)
6. (1,010) 7. (425) 8. (418) 9. (1,098)

10.

$$\begin{array}{r} 868 \\ + 735 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 268 \\ + 924 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 466 \\ + 366 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 199 \\ + 877 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 179 \\ + 497 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 346 \\ + 186 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 158 \\ + 158 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 180 \\ + 190 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 794 \\ + 301 \\ \hline \end{array}$$

Answers:

10. (1,603) 11. (1,192) 12. (832) 13. (1,076) 14. (676)

15. (532) 16. (316) 17. (370) 18. (1,095)

19.

$$\begin{array}{r} 918 \\ + 572 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 166 \\ + 266 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 586 \\ + 376 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 910 \\ + 108 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 194 \\ + 816 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 628 \\ + 478 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 888 \\ + 888 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 600 \\ + 600 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 700 \\ + 700 \\ \hline \end{array}$$

Answers:

**19. (1,490) 20. (432) 21. (962) 22. (1,018) 23. (1,010)
24. (1,106) 25. (1,776) 26. (1,200) 27. (1,400)**

Level 6 - Four Digit Addition - Good Luck!

1.
$$\begin{array}{r} 1,000 \\ + 2,000 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 4,000 \\ + 5,000 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 6,000 \\ + 1,000 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 7,000 \\ + 2,000 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 1,000 \\ + 1,000 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 1,111 \\ + 2,222 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 3,333 \\ + 2,222 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 4,444 \\ + 4,444 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 8,888 \\ + 1,111 \\ \hline \end{array}$$

Answers:

1. (3,000) 2. (9,000) 3. (7,000) 4. (9,000) 5. (2,000)
6. (3,333) 7. (5,555) 8. (8,888) 9. (9,999)

10.

$$\begin{array}{r} 1,000 \\ + 2,500 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 2,500 \\ + 2,500 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 4,500 \\ + 4,500 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 1,001 \\ + 1,001 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 2,002 \\ + 2,002 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 3,500 \\ + 6,500 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 1,100 \\ + 2,200 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 1,800 \\ + 1,100 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 4,001 \\ + 3,001 \\ \hline \end{array}$$

Answers:

10. (3,500) 11. (5,000) 12. (9,000) 13. (2,002) 14. (4,004)
15. (10,000) 16. (3,300) 17. (2,900) 18. (7,002)

19.
$$\begin{array}{r} 1,234 \\ + 4,321 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 5,500 \\ + 1,055 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 1,845 \\ + 1,111 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 1,060 \\ + 8,030 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 1,540 \\ + 1,220 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 1,010 \\ + 2,020 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 5,555 \\ + 2,222 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 1,600 \\ + 1,300 \\ \hline \end{array}$$

27.
$$\begin{array}{r} 2,400 \\ + 2,300 \\ \hline \end{array}$$

Answers:

19. (5,555) 20. (6,555) 21. (2,956) 22. (9,090) 23. (2,760)
24. (3,030) 25. (7,777) 26. (2,900) 27. (4,700)

Level 7 - Four Digit Addition - Good Luck!

1.
$$\begin{array}{r} 1,598 \\ + 2,088 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 4,560 \\ + 5,068 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 3,460 \\ + 1,864 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 8,383 \\ + 1,537 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 3,963 \\ + 1,947 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 7,281 \\ + 2,222 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 3,333 \\ + 9,876 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 6,789 \\ + 4,444 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 4,955 \\ + 1,111 \\ \hline \end{array}$$

Answers:

1. (3,686) 2. (9,628) 3. (5,324) 4. (9,920) 5. (5,910)
6. (9,503) 7. (13,209) 8. (11,233) 9. (6,066)

10.

$$\begin{array}{r} 1,099 \\ + 2,588 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 2,660 \\ + 2,990 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 4,500 \\ + 4,666 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 1,881 \\ + 1,441 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 2,552 \\ + 2,552 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 1,000 \\ + 6,598 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 1,100 \\ + 9,800 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 1,800 \\ + 1,767 \\ \hline \end{array}$$

18.

$$\begin{array}{r} 4,441 \\ + 6,661 \\ \hline \end{array}$$

Answers:

10. (3,687) 11. (5,650) 12. (9,166) 13. (3,322) 14. (5,104)

15. (7,598) 16. (10,900) 17. (3,567) 18. (11,102)

19.

$$\begin{array}{r} 9,988 \\ + 7,755 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 5,555 \\ + 9,955 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 9,876 \\ + 9,876 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 4,488 \\ + 3,333 \\ \hline \end{array}$$

23.

$$\begin{array}{r} 1,298 \\ + 4,576 \\ \hline \end{array}$$

24.

$$\begin{array}{r} 9,987 \\ + 1,925 \\ \hline \end{array}$$

25.

$$\begin{array}{r} 5,555 \\ + 8,810 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 1,609 \\ + 1,725 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 8,467 \\ + 1,377 \\ \hline \end{array}$$

Answers:

19. (17,743) 20. (15,510) 21. (19,752) 22. (7,821) 23. (5,874)
24. (11,912) 25. (14,365) 26. (3,334) 27. (9,844)



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