

Name _____ Date _____ M4

Directions: Check the multiplication problems on this sheet by casting nines.

The first one has been done. If you finish and have time, try to find and fix one or more of the multiplication mistakes.

$$\begin{array}{r} (1) \quad 35 \quad 8 \\ \times 62 \quad x8 \\ \hline 70 \quad (64) \\ \hline 2100 \\ \hline 2,170 \quad \textcircled{1} \checkmark \end{array}$$

$$\begin{array}{r} (2) \quad 48 \\ \times 19 \\ \hline 432 \\ \hline 480 \\ \hline 912 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (3) \quad 72 \\ \times 85 \\ \hline 360 \\ \hline 5760 \\ \hline 6,120 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (4) \quad 68 \\ \times 23 \\ \hline 204 \\ \hline 1360 \\ \hline 1,564 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (5) \quad 97 \\ \times 46 \\ \hline 582 \\ \hline 3810 \\ \hline 4,092 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (6) \quad 98 \\ \times 49 \\ \hline 872 \\ \hline 3920 \\ \hline 4,792 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (7) \quad 59 \\ \times 72 \\ \hline 118 \\ \hline 4130 \\ \hline 4,248 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (8) \quad 26 \\ \times 21 \\ \hline 26 \\ \hline 520 \\ \hline 546 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (9) \quad 39 \\ \times 79 \\ \hline 351 \\ \hline 2730 \\ \hline 3,081 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (10) \quad 43 \\ \times 65 \\ \hline 215 \\ \hline 2580 \\ \hline 2,795 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (11) \quad 83 \\ \times 63 \\ \hline 249 \\ \hline 4980 \\ \hline 5,229 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (12) \quad 19 \\ \times 82 \\ \hline 38 \\ \hline 1520 \\ \hline 1,558 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (13) \quad 52 \\ \times 68 \\ \hline 416 \\ \hline 3120 \\ \hline 3,536 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (14) \quad 77 \\ \times 16 \\ \hline 462 \\ \hline 770 \\ \hline 1,232 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (15) \quad 84 \\ \times 55 \\ \hline 420 \\ \hline 4200 \\ \hline 4,620 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (16) \quad 634 \\ \times 16 \\ \hline 3804 \\ \hline 6340 \\ \hline 10,144 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (17) \quad 956 \\ \times 87 \\ \hline 6692 \\ \hline 76480 \\ \hline 83,172 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (18) \quad 351 \\ \times 42 \\ \hline 702 \\ \hline 14040 \\ \hline 14,742 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (19) \quad 869 \\ \times 33 \\ \hline 2607 \\ \hline 26070 \\ \hline 28,677 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (20) \quad 462 \\ \times 93 \\ \hline 1386 \\ \hline 41580 \\ \hline 41,966 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (21) \quad 558 \\ \times 45 \\ \hline 2790 \\ \hline 22320 \\ \hline 25,110 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (22) \quad 279 \\ \times 79 \\ \hline 2511 \\ \hline 19530 \\ \hline 22,041 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (23) \quad 768 \\ \times 27 \\ \hline 5376 \\ \hline 15360 \\ \hline 21,036 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (24) \quad 648 \\ \times 96 \\ \hline 3888 \\ \hline 58320 \\ \hline 62,208 \quad \textcircled{} \end{array}$$

$$\begin{array}{r} (25) \quad 326 \\ \times 35 \\ \hline 1630 \\ \hline 9780 \\ \hline 11,410 \quad \textcircled{} \end{array}$$

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Notes to the Teacher: Casting nines is especially helpful for checking two and three-place multiplication. Correct answers are: (5) 4,462; (6) 4,802; (14) 1,232; (20) 42,966; (23) 20,736.

$$\begin{array}{r} (1) \quad 35 \quad 8 \\ \times 62 \quad x8 \\ \hline 70 \\ 2100 \\ \hline 2,170 \quad (1) \checkmark \end{array}$$

$$\begin{array}{r} (2) \quad 48 \quad 3 \\ \times 19 \quad x1 \\ \hline 432 \\ 480 \\ \hline 912 \quad (3) \checkmark \end{array}$$

$$\begin{array}{r} (3) \quad 72 \quad 0 \\ \times 85 \\ \hline 360 \\ 5760 \\ \hline 6,120 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (4) \quad 68 \quad 5 \\ \times 23 \quad x5 \\ \hline 204 \\ 1360 \\ \hline 1,564 \quad (7) \checkmark \end{array}$$

$$\begin{array}{r} (5) \quad 97 \quad 7 \\ \times 46 \quad x1 \\ \hline 582 \\ 3810 \\ \hline ~~4,092~~ \quad (7) \end{array}$$

$$\begin{array}{r} (6) \quad 98 \quad 8 \\ \times 49 \quad x4 \\ \hline 872 \\ 3920 \\ \hline ~~4,792~~ \quad (5) \end{array}$$

$$\begin{array}{r} (7) \quad 59 \\ \times 72 \quad 0 \\ \hline 118 \\ 4130 \\ \hline 4,248 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (8) \quad 26 \quad 8 \\ \times 21 \quad x3 \\ \hline 26 \\ 520 \\ \hline 546 \quad (6) \checkmark \end{array}$$

$$\begin{array}{r} (9) \quad 39 \quad 3 \\ \times 79 \quad x7 \\ \hline 351 \\ 2730 \\ \hline 3,081 \quad (3) \checkmark \end{array}$$

$$\begin{array}{r} (10) \quad 43 \quad 7 \\ \times 65 \quad x2 \\ \hline 215 \\ 2580 \\ \hline 2,795 \quad (5) \checkmark \end{array}$$

$$\begin{array}{r} (11) \quad 83 \\ \times 63 \quad 0 \\ \hline 249 \\ 4980 \\ \hline 5,229 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (12) \quad 19 \quad 1 \\ \times 82 \quad x1 \\ \hline 38 \\ 1520 \\ \hline 1,558 \quad (1) \checkmark \end{array}$$

$$\begin{array}{r} (13) \quad 52 \quad 7 \\ \times 68 \quad x5 \\ \hline 416 \\ 3120 \\ \hline 3,536 \quad (8) \checkmark \end{array}$$

$$\begin{array}{r} (14) \quad 77 \quad 5 \\ \times 16 \quad x7 \\ \hline 462 \\ 770 \\ \hline ~~1,522~~ \quad (8) \end{array}$$

$$\begin{array}{r} (15) \quad 84 \quad 3 \\ \times 55 \quad x1 \\ \hline 420 \\ 4200 \\ \hline 4,620 \quad (3) \checkmark \end{array}$$

$$\begin{array}{r} (16) \quad 634 \quad 4 \\ \times 16 \quad x7 \\ \hline 3804 \\ 6340 \\ \hline 10,144 \quad (1) \checkmark \end{array}$$

$$\begin{array}{r} (17) \quad 956 \quad 2 \\ \times 87 \quad x6 \\ \hline 6692 \\ 76480 \\ \hline 83,172 \quad (3) \checkmark \end{array}$$

$$\begin{array}{r} (18) \quad 351 \quad 0 \\ \times 42 \\ \hline 702 \\ 14040 \\ \hline 14,742 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (19) \quad 869 \quad 5 \\ \times 33 \quad x6 \\ \hline 2607 \\ 26070 \\ \hline 28,677 \quad (3) \checkmark \end{array}$$

$$\begin{array}{r} (20) \quad 462 \quad 3 \\ \times 93 \quad x3 \\ \hline 1386 \\ 41580 \\ \hline ~~41,966~~ \quad (0) \end{array}$$

$$\begin{array}{r} (21) \quad 558 \quad 0 \\ \times 45 \\ \hline 2790 \\ 22320 \\ \hline 25,110 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (22) \quad 279 \quad 0 \\ \times 79 \\ \hline 2511 \\ 19530 \\ \hline 22,041 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (23) \quad 768 \\ \times 27 \quad 0 \\ \hline 5376 \\ 15360 \\ \hline ~~21,036~~ \quad (0) \end{array}$$

$$\begin{array}{r} (24) \quad 648 \quad 0 \\ \times 96 \\ \hline 3888 \\ 58320 \\ \hline 62,208 \quad (0) \checkmark \end{array}$$

$$\begin{array}{r} (25) \quad 326 \quad 2 \\ \times 35 \quad x8 \\ \hline 1630 \\ 9780 \\ \hline 11,410 \quad (7) \checkmark \end{array}$$