



Year 3 Addition Algorithms - Worksheet 1

Question 1: Add 2-digit numbers in columns (no carry)

$\begin{array}{r} 34 \\ + 32 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 54 \\ + 12 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 26 \\ + 23 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 43 \\ + 45 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 74 \\ + 13 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 84 \\ + 14 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 24 \\ + 42 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 46 \\ + 21 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 64 \\ + 22 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 73 \\ + 16 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 47 \\ + 52 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 63 \\ + 23 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 13 \\ + 84 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 35 \\ + 61 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 72 \\ + 11 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 53 \\ + 46 \\ \hline \\ \hline \end{array}$



Question 2: Addition of Tens within 100

$\begin{array}{r} 12 \\ + 08 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 43 \\ + 07 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 36 \\ + 04 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 59 \\ + 01 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 64 \\ + 16 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 35 \\ + 15 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 78 \\ + 12 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 87 \\ + 13 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 56 \\ + 24 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 47 \\ + 33 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 65 \\ + 25 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 56 \\ + 34 \\ \hline \\ \hline \end{array}$
$\begin{array}{r} 66 \\ + 24 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 59 \\ + 21 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 31 \\ + 49 \\ \hline \\ \hline \end{array}$	$\begin{array}{r} 42 \\ + 28 \\ \hline \\ \hline \end{array}$



Question 3: Write the following in the column and find the sum.

$12 + 35$	$45 + 52$	$32 + 27$	$44 + 44$
$36 + 34$	$74 + 16$	$53 + 27$	$75 + 15$
$63 + 34$	$57 + 33$	$29 + 51$	$15 + 74$
$36 + 54$	$25 + 64$	$24 + 55$	$56 + 33$



Question 4: Find the missing numbers (adding to complete 100)

$\underline{\quad} + 20 = 100$	$50 + \underline{\quad} = 100$	$40 + \underline{\quad} = 100$
$\underline{\quad} + 60 = 100$	$\underline{\quad} + 10 = 100$	$30 + \underline{\quad} = 100$
$\underline{\quad} + 65 = 100$	$\underline{\quad} + 15 = 100$	$45 + \underline{\quad} = 100$
$75 + \underline{\quad} = 100$	$\underline{\quad} + 25 = 100$	$85 + \underline{\quad} = 100$
$\underline{\quad} + 35 = 100$	$43 + \underline{\quad} = 100$	$94 + \underline{\quad} = 100$
$23 + \underline{\quad} = 100$	$66 + \underline{\quad} = 100$	$\underline{\quad} + 34 = 100$
$76 + \underline{\quad} = 100$	$\underline{\quad} + 21 = 100$	$18 + \underline{\quad} = 100$



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Answer Key

Question 1: Add 2-digit numbers in columns (no regrouping)

$\begin{array}{r} 34 \\ + 32 \\ \hline \end{array}$ <u>66</u>	$\begin{array}{r} 54 \\ + 12 \\ \hline \end{array}$ <u>66</u>	$\begin{array}{r} 26 \\ + 23 \\ \hline \end{array}$ <u>49</u>	$\begin{array}{r} 43 \\ + 45 \\ \hline \end{array}$ <u>88</u>
$\begin{array}{r} 74 \\ + 13 \\ \hline \end{array}$ <u>87</u>	$\begin{array}{r} 84 \\ + 14 \\ \hline \end{array}$ <u>98</u>	$\begin{array}{r} 24 \\ + 42 \\ \hline \end{array}$ <u>66</u>	$\begin{array}{r} 46 \\ + 21 \\ \hline \end{array}$ <u>67</u>
$\begin{array}{r} 64 \\ + 22 \\ \hline \end{array}$ <u>86</u>	$\begin{array}{r} 73 \\ + 16 \\ \hline \end{array}$ <u>89</u>	$\begin{array}{r} 47 \\ + 52 \\ \hline \end{array}$ <u>99</u>	$\begin{array}{r} 63 \\ + 23 \\ \hline \end{array}$ <u>86</u>
$\begin{array}{r} 13 \\ + 84 \\ \hline \end{array}$ <u>97</u>	$\begin{array}{r} 35 \\ + 61 \\ \hline \end{array}$ <u>96</u>	$\begin{array}{r} 72 \\ + 11 \\ \hline \end{array}$ <u>83</u>	$\begin{array}{r} 53 \\ + 46 \\ \hline \end{array}$ <u>99</u>



Question 2: Addition of Tens within 100

$\begin{array}{r} 12 \\ + 08 \\ \hline \mathbf{20} \end{array}$	$\begin{array}{r} 43 \\ + 07 \\ \hline \mathbf{50} \end{array}$	$\begin{array}{r} 36 \\ + 04 \\ \hline \mathbf{40} \end{array}$	$\begin{array}{r} 59 \\ + 01 \\ \hline \mathbf{60} \end{array}$
$\begin{array}{r} 64 \\ + 16 \\ \hline \mathbf{80} \end{array}$	$\begin{array}{r} 35 \\ + 15 \\ \hline \mathbf{50} \end{array}$	$\begin{array}{r} 78 \\ + 12 \\ \hline \mathbf{90} \end{array}$	$\begin{array}{r} 77 \\ + 13 \\ \hline \mathbf{90} \end{array}$
$\begin{array}{r} 56 \\ + 24 \\ \hline \mathbf{80} \end{array}$	$\begin{array}{r} 47 \\ + 33 \\ \hline \mathbf{80} \end{array}$	$\begin{array}{r} 65 \\ + 25 \\ \hline \mathbf{90} \end{array}$	$\begin{array}{r} 56 \\ + 34 \\ \hline \mathbf{90} \end{array}$
$\begin{array}{r} 66 \\ + 24 \\ \hline \mathbf{90} \end{array}$	$\begin{array}{r} 59 \\ + 21 \\ \hline \mathbf{80} \end{array}$	$\begin{array}{r} 31 \\ + 49 \\ \hline \mathbf{80} \end{array}$	$\begin{array}{r} 42 \\ + 28 \\ \hline \mathbf{70} \end{array}$



Question 3: Write the following in the column and find the sum.

$\begin{array}{r} 12 + 35 \\ 12 \\ + 35 \\ \hline 47 \end{array}$	$\begin{array}{r} 45 + 52 \\ 45 \\ + 52 \\ \hline 97 \end{array}$	$\begin{array}{r} 32 + 27 \\ 32 \\ + 27 \\ \hline 59 \end{array}$	$\begin{array}{r} 44 + 44 \\ 44 \\ + 44 \\ \hline 88 \end{array}$
$\begin{array}{r} 36 + 34 \\ 36 \\ + 34 \\ \hline 70 \end{array}$	$\begin{array}{r} 74 + 16 \\ 74 \\ + 16 \\ \hline 90 \end{array}$	$\begin{array}{r} 53 + 27 \\ 53 \\ + 27 \\ \hline 90 \end{array}$	$\begin{array}{r} 75 + 15 \\ 75 \\ + 15 \\ \hline 90 \end{array}$
$\begin{array}{r} 63 + 34 \\ 63 \\ + 34 \\ \hline 97 \end{array}$	$\begin{array}{r} 57 + 33 \\ 57 \\ + 33 \\ \hline 90 \end{array}$	$\begin{array}{r} 29 + 51 \\ 29 \\ + 51 \\ \hline 80 \end{array}$	$\begin{array}{r} 15 + 74 \\ 15 \\ + 74 \\ \hline 89 \end{array}$
$\begin{array}{r} 36 + 54 \\ 36 \\ + 54 \\ \hline 90 \end{array}$	$\begin{array}{r} 25 + 64 \\ 25 \\ + 64 \\ \hline 89 \end{array}$	$\begin{array}{r} 24 + 55 \\ 24 \\ + 55 \\ \hline 79 \end{array}$	$\begin{array}{r} 56 + 33 \\ 56 \\ + 33 \\ \hline 89 \end{array}$



Question 4: Find the missing numbers (adding to complete 100)

$\underline{80} + 20 = 100$	$50 + \underline{50} = 100$	$40 + \underline{60} = 100$
$\underline{40} + 60 = 100$	$\underline{90} + 10 = 100$	$30 + \underline{70} = 100$
$\underline{35} + 65 = 100$	$\underline{85} + 15 = 100$	$45 + \underline{55} = 100$
$75 + \underline{25} = 100$	$\underline{75} + 25 = 100$	$85 + \underline{15} = 100$
$\underline{65} + 35 = 100$	$43 + \underline{57} = 100$	$94 + \underline{6} = 100$
$23 + \underline{77} = 100$	$66 + \underline{34} = 100$	$\underline{66} + 34 = 100$
$76 + \underline{24} = 100$	$\underline{79} + 21 = 100$	$18 + \underline{82} = 100$