

NOTE: The number for each skill indicates the suggested grade level in which to teach it. Any errors in the process for a skill indicate the need to teach it. Fact errors are not really relevant, but if frequent, indicate the need for more Rocket Math facts practice.

SKILL 1b:

Adding 1 & 2 digits without renaming.

$$\begin{array}{r} 44 \\ +24 \\ \hline 68 \end{array}$$

$$\begin{array}{r} 74 \\ + 5 \\ \hline 79 \end{array}$$

$$\begin{array}{r} 25 \\ +31 \\ \hline 56 \end{array}$$

SKILL 2a:

Adding three single-digit numbers.

$$\begin{array}{r} 9 \\ 3 \\ + 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ 3 \\ + 5 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 1 \\ 6 \\ + 4 \\ \hline 11 \end{array}$$

SKILL 2b-c: Adding a 3-digit number to 1, 2, or 3 digits; no renaming.

$$\begin{array}{r} 321 \\ +576 \\ \hline 897 \end{array}$$

$$\begin{array}{r} 483 \\ + 6 \\ \hline 489 \end{array}$$

$$\begin{array}{r} 262 \\ + 37 \\ \hline 299 \end{array}$$

SKILL 2d: Adding

three 1- or 2-digit numbers; no renaming.

$$\begin{array}{r} 24 \\ 2 \\ + 31 \\ \hline 57 \end{array}$$

$$\begin{array}{r} 3 \\ 4 \\ + 42 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 4 \\ 23 \\ + 11 \\ \hline 38 \end{array}$$

SKILL 2e: Adding

two 2-digit numbers; renaming ones to tens.

$$\begin{array}{r} \overset{1}{3}2 \\ + \overset{1}{1}7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} \overset{1}{5}7 \\ + \overset{1}{2}3 \\ \hline 80 \end{array}$$

$$\begin{array}{r} \overset{1}{2}8 \\ + \overset{1}{2}4 \\ \hline 52 \end{array}$$

SKILL 2f: Adding a 3-digit number

to 1, 2, or 3 digits; renaming ones to tens.

$$\begin{array}{r} \overset{1}{3}56 \\ + \overset{1}{8} \\ \hline 364 \end{array}$$

$$\begin{array}{r} \overset{1}{4}58 \\ + \overset{1}{2}38 \\ \hline 696 \end{array}$$

$$\begin{array}{r} \overset{1}{6}42 \\ + \overset{1}{1}9 \\ \hline 661 \end{array}$$

SKILL 3a: Add to 20; adding a 1-digit number to a teen number—sum below 20.

$$15 + 4 = \underline{19}$$

$$3 + 12 = \underline{15}$$

$$12 + 6 = \underline{18}$$

$$4 + 13 = \underline{17}$$

$$11 + 5 = \underline{16}$$

SKILL 3b: Adding two 2- or 3-digit numbers; renaming from tens to hundreds.

$$\begin{array}{r} \overset{1}{4}72 \\ + \overset{1}{1}63 \\ \hline 635 \end{array}$$

$$\begin{array}{r} \overset{1}{4}23 \\ + \overset{1}{9}5 \\ \hline 518 \end{array}$$

$$\begin{array}{r} \overset{1}{3}74 \\ + \overset{1}{3}32 \\ \hline 706 \end{array}$$

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SKILL 3c: Adding two 3-digit numbers;
renaming from ones to tens and tens to hundreds.

$$\begin{array}{r} \overset{1}{4} \overset{1}{7} 3 \\ + 268 \\ \hline 741 \end{array}$$

$$\begin{array}{r} \overset{1}{4} \overset{1}{4} 8 \\ + 173 \\ \hline 621 \end{array}$$

$$\begin{array}{r} \overset{1}{1} \overset{1}{6} 3 \\ + 748 \\ \hline 911 \end{array}$$

SKILL 3d: Adding three 2-digit numbers;
renaming—ones column totals less than 20.

$$\begin{array}{r} \overset{1}{2} 3 \\ + 35 \\ + 29 \\ \hline 87 \end{array}$$

$$\begin{array}{r} \overset{1}{3} 2 \\ + 45 \\ + 58 \\ \hline 135 \end{array}$$

$$\begin{array}{r} \overset{1}{3} 2 \\ + 28 \\ + 40 \\ \hline 100 \end{array}$$

SKILL 3e: Adding four 1-, 2-, or 3-digit numbers;
renaming from ones to tens and from tens to
hundreds—sums of columns below 20.

$$\begin{array}{r} \overset{1}{4} \overset{1}{9} 3 \\ \quad 7 \\ \quad 32 \\ + 463 \\ \hline 995 \end{array}$$

$$\begin{array}{r} \overset{1}{3} \overset{1}{8} 6 \\ \quad 32 \\ \quad 263 \\ + \quad 2 \\ \hline 683 \end{array}$$

$$\begin{array}{r} \overset{1}{5} \overset{1}{3} 6 \\ \quad 7 \\ \quad 536 \\ \quad 173 \\ + \quad 22 \\ \hline 738 \end{array}$$

**SKILL 4a: Adding a 1-digit number to
a teen number—sum 20 or over.**

$$17 + 9 = \underline{26}$$

$$8 + 15 = \underline{23}$$

$$14 + 7 = \underline{21}$$

$$9 + 18 = \underline{27}$$

$$19 + 6 = \underline{25}$$

SKILL 4b: Adding three 2-digit numbers;
renaming—ones column totals 20 or more.

$$\begin{array}{r} \overset{2}{3} 9 \\ \overset{2}{2} 7 \\ + \overset{2}{1} 9 \\ \hline 85 \end{array}$$

$$\begin{array}{r} \overset{2}{4} 8 \\ \overset{2}{1} 9 \\ + \overset{2}{2} 7 \\ \hline 94 \end{array}$$

$$\begin{array}{r} \overset{2}{3} 6 \\ \overset{2}{2} 8 \\ + \overset{2}{1} 9 \\ \hline 83 \end{array}$$

SKILL 4c: Adding 4 or 5 multi-digit numbers;
renaming in all, some columns totals over 20.

$$\begin{array}{r} \overset{1}{4} \overset{2}{0} 46 \\ \overset{1}{2} 823 \\ \overset{1}{5} 07 \\ + \overset{1}{6} 1 \\ \hline 7762 \end{array}$$

$$\begin{array}{r} \overset{1}{2} 49 \\ \overset{1}{3} 037 \\ \quad 1 \\ + \overset{1}{1} 62 \\ \hline 3449 \end{array}$$

$$\begin{array}{r} \overset{2}{1} 670 \\ \overset{1}{2} 496 \\ \quad 502 \\ \quad 173 \\ + \overset{1}{5} 8 \\ \hline 3899 \end{array}$$