

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 3b: Dividing 1-digit divisor and quotient with remainder.

$$\begin{array}{r} 6 \text{ R}3 \\ 9 \overline{)57} \\ \underline{-54} \\ 3 \end{array} \quad \begin{array}{r} 7 \\ 6 \overline{)42} \end{array} \quad \begin{array}{r} 9 \text{ R}1 \\ 5 \overline{)46} \\ \underline{-45} \\ 1 \end{array}$$

SKILL 3c: Division equation with equals sign; facts with no remainder.

$$\begin{array}{l} 64 \div 8 = \boxed{8} \\ 24 \div 4 = \boxed{6} \\ 20 \div 5 = \boxed{4} \end{array} \quad \begin{array}{l} 12 \div 3 = \boxed{4} \\ 35 \div 7 = \boxed{5} \\ 72 \div 8 = \boxed{9} \end{array}$$

SKILL 4a: 1-digit divisor; 2- or 3-digit dividend, 2-digit quotient; no remainder.

$$\begin{array}{r} 87 \\ 5 \overline{)435} \\ \underline{-40} \\ 35 \\ \underline{-35} \\ 0 \end{array} \quad \begin{array}{r} 14 \\ 4 \overline{)56} \\ \underline{-4} \\ 16 \\ \underline{-16} \\ 0 \end{array} \quad \begin{array}{r} 76 \\ 9 \overline{)684} \\ \underline{-63} \\ 54 \\ \underline{-54} \\ 0 \end{array}$$

SKILL 4b: One-digit divisor; 2- or 3-digit dividend, 2-digit quotient; remainder.

$$\begin{array}{r} 76 \text{ R}5 \\ 8 \overline{)617} \\ \underline{-56} \\ 53 \\ \underline{-48} \\ 5 \end{array} \quad \begin{array}{r} 23 \text{ R}3 \\ 4 \overline{)95} \\ \underline{-8} \\ 15 \\ \underline{-12} \\ 3 \end{array} \quad \begin{array}{r} 24 \text{ R}1 \\ 9 \overline{)217} \\ \underline{-18} \\ 37 \\ \underline{-36} \\ 1 \end{array}$$

SKILL 4c: 1-digit divisor; 2- or 3-digit dividend, 2-digit quotient with zero; remainder.

$$\begin{array}{r} 60 \text{ R}7 \\ 9 \overline{)547} \\ \underline{-54} \\ 07 \\ \underline{-0} \\ 7 \end{array} \quad \begin{array}{r} 30 \text{ R}1 \\ 2 \overline{)61} \\ \underline{-6} \\ 01 \\ \underline{-0} \\ 1 \end{array} \quad \begin{array}{r} 50 \text{ R}6 \\ 7 \overline{)356} \\ \underline{-35} \\ 06 \\ \underline{-0} \\ 6 \end{array}$$

SKILL 4d: Rounding to the nearest ten.

$$\begin{array}{l} 75 \text{ rounds to } \underline{8} \text{ tens} \\ 144 \text{ rounds to } \underline{14} \text{ tens} \\ 883 \text{ rounds to } \underline{88} \text{ tens} \\ 295 \text{ rounds to } \underline{30} \text{ tens} \\ 66 \text{ rounds to } \underline{7} \text{ tens} \\ 494 \text{ rounds to } \underline{49} \text{ tens} \end{array}$$

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SKILL 4e: One-digit divisor, 3- or 4-digit dividend, 3-digit quotient.

$$\begin{array}{r} 693 \\ 8 \overline{)5544} \\ \underline{-48} \\ 74 \\ \underline{-72} \\ 24 \\ \underline{-24} \\ 0 \end{array} \quad \begin{array}{r} 147R3 \\ 5 \overline{)738} \\ \underline{-5} \\ 23 \\ \underline{-20} \\ 38 \\ \underline{-35} \\ 3 \end{array} \quad \begin{array}{r} 872R5 \\ 6 \overline{)5237} \\ \underline{-48} \\ 43 \\ \underline{-42} \\ 17 \\ \underline{-12} \\ 5 \end{array}$$

SKILL 4f: One-digit divisor, 3- or 4-digit dividend, 3-digit quotient with zero.

$$\begin{array}{r} 209 \\ 4 \overline{)836} \\ \underline{(a)-8} \\ 03 \\ \underline{-0} \\ 36 \\ \underline{-36} \\ 0 \end{array} \quad \begin{array}{r} 908R1 \\ 6 \overline{)5449} \\ \underline{(a)-54} \\ 04 \\ \underline{-0} \\ 49 \\ \underline{-48} \\ 1 \end{array} \quad \begin{array}{r} 208R2 \\ 2 \overline{)818} \\ \underline{(a)-8} \\ 01 \\ \underline{-0} \\ 18 \\ \underline{-16} \\ 2 \end{array}$$

SKILL 4g: One-digit divisor; 3- or 4-digit dividend, 4-digit quotient with zero.

$$\begin{array}{r} 1154R4 \\ 7 \overline{)8082} \\ \underline{-7} \\ 10 \\ \underline{-7} \\ 38 \\ \underline{-35} \\ 32 \\ \underline{-28} \\ 4 \end{array} \quad \begin{array}{r} 7097R2 \\ 5 \overline{)35487} \\ \underline{-35} \\ 04 \\ \underline{-0} \\ 48 \\ \underline{-45} \\ 37 \\ \underline{-35} \\ 2 \end{array}$$

SKILL 4h: Two-digit divisor; 1- or 2-digit quotient, all estimation yields correct quotient.

$$\begin{array}{r} 7R33 \\ 35 \overline{)278} \\ \underline{245} \\ 33 \end{array} \quad \begin{array}{r} 45R7 \\ 52 \overline{)2347} \\ \underline{208} \\ 267 \\ \underline{260} \\ 7 \end{array} \quad \begin{array}{r} 12R10 \\ 29 \overline{)358} \\ \underline{29} \\ 68 \\ \underline{58} \\ 10 \end{array}$$

$$\begin{array}{r} 4 \overline{)28} \\ \underline{} \\ \end{array} \quad \begin{array}{r} 5 \overline{)23} \\ \underline{} \\ \end{array} \quad \begin{array}{r} 3 \overline{)4} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 5 \overline{)27} \\ \underline{} \\ \end{array} \quad \begin{array}{r} 3 \overline{)7} \\ \underline{} \\ \end{array}$$

SKILL 4i: Two-digit divisor; 1- or 2-digit quotient, estimation sometimes yields incorrect quotient.

$$\begin{array}{r} 4R40 \\ 44 \overline{)216} \\ \underline{176} \\ 40 \end{array} \quad \begin{array}{r} 5 \\ 4 \overline{)22} \\ \underline{244} \\ \times 5 \\ 220 \\ - \\ \end{array} \quad \begin{array}{r} 4 \\ 58 \overline{)232} \\ \underline{232} \\ 0 \end{array} \quad \begin{array}{r} 3 \\ 6 \overline{)23} \\ \underline{258} \\ \times 3 \\ 174 \\ \\ \underline{1121} \\ 232 \\ -174 \\ 58 \end{array} \quad \begin{array}{r} 7R2 \\ 41 \overline{)289} \\ \underline{287} \\ 2 \end{array} \quad \begin{array}{r} 7 \\ 4 \overline{)29} \\ \underline{40} \\ \times 7 \\ 287 \\ \\ \underline{289} \\ -287 \\ 2 \end{array}$$