Rocket Math

Answers Skill Assessment

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: Multiplying 1 digit times 2 digits; no renaming.

$$41 \times 6 = 246$$

$$40 \times 7 = 280$$

$$63 \times 3 = 189$$

SKILL 3c: Multiplying 1 digit times 2 digits; with renaming.

$$\overset{2}{5}4 \times 7 = 368$$

$$\overset{4}{8}7 \times 6 = 522$$

$$\overset{1}{3}2 \times 9 = 288$$

SKILL 3d: Multiplying 1 digit times 2 digits; written horizontally.

$7 \times 65 =$

$$\overset{3}{6}5 \times 7 = 455$$

$94 \times 5 =$

$$\overset{2}{9}4 \times 5 = 470$$

SKILL 3e: Reading and writing thousands numbers, using commas.

a) Student reads to you   b & c) Dictate so student can write

1 a) 3,034 b) 8,046 c) 1,048

2 a) 9,303 b) 1,908 c) 8,708

3 a) 6,002 b) 8,004 c) 7,009

SKILL 4a: Multiplying 1 digit times 3 digits; with renaming.

$$\overset{5\,7}{2}69 \times 8 = 2,152$$

$$\overset{2}{8}91 \times 3 = 2,673$$

$$\overset{2\,1}{6}42 \times 7 = 4,494$$

SKILL 4b: Multiplying 1 digit times 3 digits; zero in tens column.

$$\overset{1}{4}02 \times 8 = 3,216$$

$$901 \times 7 = 6,307$$

$$\overset{3}{3}06 \times 6 = 1,836$$

SKILL 4c: Multiplying 1 digit times 3 digits; written horizontally.

$5 \times 541 =$

$$\overset{2}{5}41 \times 5 = 2,705$$

$367 \times 9 =$

$$\overset{6\,6}{3}67 \times 9 = 3,303$$

SKILL 4d: Multiplying 2 digits times 2 digits; with renaming.

$$\begin{array}{r} \overset{2}{\underset{3}{8}}5 \\ \times 57 \\ \hline 595 \\ 4250 \\ \hline 4,845 \end{array}$$

$$\begin{array}{r} \overset{3}{\underset{1}{9}}6 \\ \times 63 \\ \hline 288 \\ 5760 \\ \hline 6,048 \end{array}$$
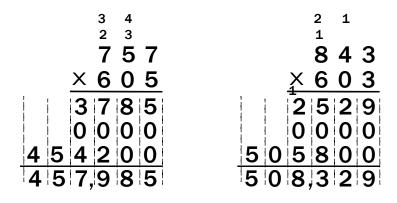
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SKILL 4e: Multiplying a 2-digit factor times a 3-digit factor.

```
  5 1          4 1
  4 1          2
  5 8 2        3 8 2
 × 7 6        × 5 3
  3 4 9 2      1 1 4 6
 4 0 7 4 0    1 9 1 0 0
 4 4,2 3 2    2 0,2 4 6
```

SKILL 5a: Multiplying a 3-digit factor times a 3-digit factor.

```
   2 3           3 2
   4 5           2 1
   3 4
   5 6 8         8 4 3
  × 4 7 5       × 2 8 6
   2 8 4 0       5 0 5 8
   3 9 7 6 0     6 7 4 4 0
  2 2 7 2 0 0   1 6 8 6 0 0
  2 6 9,8 0 0   2 4 1,0 9 8
```

SKILL 5b: Multiplying 3 digits times 3 digits; zero in tens column of multiplier.

```
   3 4           2 1
   2 3           1
   7 5 7         8 4 3
  × 6 0 5       × 6 0 3
   3 7 8 5       2 5 2 9
   0 0 0 0       0 0 0 0
  4 5 4 2 0 0   5 0 5 8 0 0
  4 5 7,9 8 5   5 0 8,3 2 9
```