

## Multiplying With 8 and 9 (Z)

Note: The second factor has a range of 1 to 9.

$$\begin{array}{r} 8 & 1 & 9 & 8 & 8 & 3 & 8 & 9 & 8 & 8 \\ \times 2 & \times 8 & \times 9 & \times 6 & \times 1 & \times 8 & \times 6 & \times 5 & \times 3 & \times 4 \\ \hline \end{array}$$

$$\begin{array}{cccccccccccccc} 9 & & 5 & & 4 & & 9 & & 9 & & 9 & & 5 & & 8 & & 9 & & 9 \\ \times 8 & & \times 8 & & \times 8 & & \times 1 & & \times 4 & & \times 4 & & \times 9 & & \times 8 & & \times 6 & & \times 8 \end{array}$$

$$\begin{array}{cccccccccccccc} & 4 & & 3 & & 6 & & 5 & & 8 & & 9 & & 9 & & 2 & & 9 \\ \times & 9 & & x & 8 & & x & 8 & & x & 9 & & x & 6 & & x & 4 & & x & 3 & & x & 4 & & x & 8 & & x & 1 \end{array}$$

$$\begin{array}{cccccccccccc}
 7 & 9 & 4 & 2 & 2 & 8 & 8 & 8 & 8 \\
 \times 8 & \times 2 & \times 9 & \times 9 & \times 8 & \times 5 & \times 7 & \times 8 & \times 4 & \times 8
 \end{array}$$

$$8 \quad 9 \quad 6 \quad 4 \quad 9 \quad 5 \quad 9 \quad 9 \quad 1 \quad 9$$

$$\times 1 \quad \times 3 \quad \times 8 \quad \times 9 \quad \times 4 \quad \times 9 \quad \times 8 \quad \times 8 \quad \times 9 \quad \times 9$$

$$\begin{array}{cccccccccccccc} 9 & & 8 & & 7 & & 2 & & 8 & & 8 & & 9 & & 2 & & 4 & & 6 \\ \times 8 & & \times 6 & & \times 8 & & \times 8 & & \times 9 & & \times 1 & & \times 9 & & \times 9 & & \times 8 & & \times 9 \end{array}$$

$$\begin{array}{cccccccccccccc} 9 & & 9 & & 9 & & 9 & & 9 & & 8 & & 5 & & 3 & & 5 & & 9 \\ \times & 3 & \times & 6 & \times & 7 & \times & 9 & \times & 2 & \times & 8 & \times & 9 & \times & 9 & \times & 8 & \times & 8 \end{array}$$

$$\begin{array}{cccccccccccccc} 3 & & 5 & & 3 & & 8 & & 9 & & 8 & & 9 & & 8 & & 4 & & 8 \\ \times & 8 & \times & 8 & \times & 9 & \times & 3 & \times & 7 & \times & 4 & \times & 2 & \times & 1 & \times & 9 & \times & 4 \end{array}$$

9 8 5 8 9 3 8 9 3 7 9 8  
x 1 x 9 x 8 x 9 x 3 x 8 x 9 x 9 x 9 x 9 x 5

9 4 1 1 2 8 5 2 9 8 2  
x 8 x 9 x 8 x 9 x 8 x 1 x 9 x 9 x 8 x 2

## Multiplying With 8 and 9 (Z) Answers

$\frac{8}{x} \frac{2}{16}$	$\frac{1}{x} \frac{8}{8}$	$\frac{9}{x} \frac{9}{81}$	$\frac{8}{x} \frac{6}{48}$	$\frac{8}{x} \frac{1}{8}$	$\frac{3}{x} \frac{8}{24}$	$\frac{8}{x} \frac{6}{48}$	$\frac{9}{x} \frac{5}{45}$	$\frac{8}{x} \frac{3}{24}$	$\frac{8}{x} \frac{4}{32}$
$\frac{9}{x} \frac{8}{72}$	$\frac{5}{x} \frac{8}{40}$	$\frac{4}{x} \frac{8}{32}$	$\frac{9}{x} \frac{1}{9}$	$\frac{9}{x} \frac{4}{36}$	$\frac{9}{x} \frac{4}{36}$	$\frac{5}{x} \frac{9}{45}$	$\frac{8}{x} \frac{8}{64}$	$\frac{9}{x} \frac{6}{54}$	$\frac{9}{x} \frac{8}{72}$
$\frac{4}{x} \frac{9}{36}$	$\frac{3}{x} \frac{8}{24}$	$\frac{6}{x} \frac{8}{48}$	$\frac{5}{x} \frac{9}{45}$	$\frac{8}{x} \frac{6}{48}$	$\frac{9}{x} \frac{4}{36}$	$\frac{9}{x} \frac{3}{27}$	$\frac{9}{x} \frac{4}{36}$	$\frac{2}{x} \frac{8}{16}$	$\frac{9}{x} \frac{1}{9}$
$\frac{7}{x} \frac{8}{56}$	$\frac{9}{x} \frac{2}{18}$	$\frac{4}{x} \frac{9}{36}$	$\frac{2}{x} \frac{9}{18}$	$\frac{2}{x} \frac{8}{16}$	$\frac{8}{x} \frac{5}{40}$	$\frac{8}{x} \frac{7}{56}$	$\frac{8}{x} \frac{8}{64}$	$\frac{8}{x} \frac{4}{32}$	$\frac{8}{x} \frac{8}{64}$
$\frac{8}{x} \frac{1}{8}$	$\frac{9}{x} \frac{3}{27}$	$\frac{6}{x} \frac{8}{48}$	$\frac{4}{x} \frac{9}{36}$	$\frac{9}{x} \frac{4}{36}$	$\frac{5}{x} \frac{9}{45}$	$\frac{9}{x} \frac{8}{72}$	$\frac{9}{x} \frac{8}{72}$	$\frac{1}{x} \frac{9}{9}$	$\frac{9}{x} \frac{9}{81}$
$\frac{9}{x} \frac{8}{72}$	$\frac{8}{x} \frac{6}{48}$	$\frac{7}{x} \frac{8}{56}$	$\frac{2}{x} \frac{8}{16}$	$\frac{8}{x} \frac{9}{72}$	$\frac{8}{x} \frac{1}{8}$	$\frac{9}{x} \frac{9}{81}$	$\frac{2}{x} \frac{9}{18}$	$\frac{4}{x} \frac{8}{32}$	$\frac{6}{x} \frac{9}{54}$
$\frac{9}{x} \frac{3}{27}$	$\frac{9}{x} \frac{6}{54}$	$\frac{9}{x} \frac{7}{63}$	$\frac{9}{x} \frac{9}{81}$	$\frac{9}{x} \frac{2}{18}$	$\frac{8}{x} \frac{8}{64}$	$\frac{5}{x} \frac{9}{45}$	$\frac{3}{x} \frac{9}{27}$	$\frac{5}{x} \frac{8}{40}$	$\frac{9}{x} \frac{8}{72}$
$\frac{3}{x} \frac{8}{24}$	$\frac{5}{x} \frac{8}{40}$	$\frac{3}{x} \frac{9}{27}$	$\frac{8}{x} \frac{3}{24}$	$\frac{9}{x} \frac{7}{63}$	$\frac{8}{x} \frac{4}{32}$	$\frac{9}{x} \frac{2}{18}$	$\frac{8}{x} \frac{1}{8}$	$\frac{4}{x} \frac{9}{36}$	$\frac{8}{x} \frac{4}{32}$
$\frac{9}{x} \frac{1}{9}$	$\frac{8}{x} \frac{9}{72}$	$\frac{5}{x} \frac{8}{40}$	$\frac{8}{x} \frac{9}{72}$	$\frac{9}{x} \frac{3}{27}$	$\frac{8}{x} \frac{8}{72}$	$\frac{3}{x} \frac{9}{27}$	$\frac{7}{x} \frac{9}{63}$	$\frac{9}{x} \frac{9}{81}$	$\frac{8}{x} \frac{5}{40}$
$\frac{9}{x} \frac{8}{72}$	$\frac{4}{x} \frac{9}{36}$	$\frac{1}{x} \frac{8}{8}$	$\frac{1}{x} \frac{9}{9}$	$\frac{2}{x} \frac{8}{16}$	$\frac{8}{x} \frac{1}{8}$	$\frac{5}{x} \frac{9}{45}$	$\frac{2}{x} \frac{9}{18}$	$\frac{9}{x} \frac{8}{72}$	$\frac{9}{x} \frac{2}{18}$