

Multiplication Practice

Name: _____

Date: _____

Question 1

Solve the multiplication equations using any technique

I. $27 \cdot 6 =$

IV. $35,200 \cdot 1.67 =$

II. $43.2 \cdot 0.45 =$

V. $235,000 \cdot 700 =$

III. $99 \cdot 1,200 =$

VI. $0.25 \cdot 0.25 =$

Multiplication Practice

VII. $99 \cdot 44 =$

X. $333 \cdot 22 =$

VIII. $1,000,000 \cdot 37.251 =$

XI. $43 \cdot 789 =$

IX. $9 \cdot 1.11 =$

XII. $15 \cdot 5.5 =$

Multiplication Practice

XIII. $0.1 \cdot 0.1 =$

XVI. $14,300 \cdot 18,900 =$

XIV. $89 \cdot 6 =$

XVII. $0.505 \cdot 20.05 =$

XV. $0.545 \cdot 0.2455 =$

XVIII. $35,555.7 \cdot 7.9 =$

Multiplication Practice

XIX. $1,222,222 \cdot 13,789.09 =$

XX. $1,000,000.005 \cdot 0.000005 =$

Multiplication Practice

Name: Key

Date: _____

Question 1

Solve the multiplication equations using any technique

I. $27 \cdot 6 = 162$

$$\begin{array}{r} 27. \\ \times 6. \\ \hline 162. \end{array}$$

IV. $35,200 \cdot 1.67 = 58,784$

$$\begin{array}{r} 35,200. \quad \leftarrow 0 \text{ decimal} \\ \times 1.67 \quad \leftarrow 2 \text{ decimal} \\ \hline \downarrow \\ \begin{array}{r} 35,200. \\ \times 167. \\ \hline 246,400. \\ 2,112,000. \\ + 3,520,000. \\ \hline 5,878,400. \end{array} \\ \downarrow \text{ decimal movement (2)} \\ 58,784.00 \end{array}$$

II. $43.2 \cdot 0.45 = 19.44$

$$\begin{array}{r} 43.2 \quad \leftarrow 1 \text{ decimal} \\ \times 0.45 \quad \leftarrow 2 \text{ decimal} \\ \hline \downarrow \\ \begin{array}{r} 432. \\ \times 045. \\ \hline 2160. \\ 17,280. \\ + 000. \\ \hline 19,440. \end{array} \\ \downarrow \text{ decimal movement (3)} \\ 19.440 \end{array}$$

V. $235,000 \cdot 700 = 164,500,000$

$$\begin{array}{r} 235,000. \\ \times 700. \\ \hline \begin{array}{r} 0. \\ 00. \\ + 164,500,000. \\ \hline 164,500,000. \end{array} \end{array}$$

III. $99 \cdot 1,200 = 118,800$

$$\begin{array}{r} 99. \\ \times 1,200. \\ \hline \begin{array}{r} 0. \\ 00. \\ 19,800. \\ + 99,000. \\ \hline 118,800. \end{array} \end{array}$$

VI. $0.25 \cdot 0.25 = 0.0625$

$$\begin{array}{r} 0.25 \quad \leftarrow 2 \text{ decimal} \\ \times 0.25 \quad \leftarrow 2 \text{ decimal} \\ \hline \downarrow \\ \begin{array}{r} 025. \\ \times 025. \\ \hline 125. \\ 500. \\ + 000. \\ \hline 625. \end{array} \\ \downarrow \text{ decimal movement (4)} \\ 0.0625 \end{array}$$

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VII. $99 \cdot 44 = 4,356$

$$\begin{array}{r} 99. \\ \times 44. \\ \hline 396. \\ + 3,960. \\ \hline 4,356. \end{array}$$

X. $333 \cdot 22 = 7,326$

$$\begin{array}{r} 333. \\ \times 22. \\ \hline 666. \\ + 6,660. \\ \hline 7,326. \end{array}$$

VIII. $1,000,000 \cdot 37.251 = 37,251,000$

$$\begin{array}{r} 1,000,000. \quad \leftarrow 0 \text{ decimal} \\ \times 37.251 \quad \leftarrow 3 \text{ decimal} \\ \hline \downarrow \\ \begin{array}{r} 1,000,000. \\ \times 37,251. \\ \hline 1,000,000. \\ 50,000,000. \\ 200,000,000. \\ 7,000,000,000. \\ + 30,000,000,000. \\ \hline 37,251,000,000. \end{array} \end{array}$$

↓ decimal movement (3)

$37,251,000.000$

XI. $43 \cdot 789 = 33,927$

$$\begin{array}{r} 43. \\ \times 789. \\ \hline 387. \\ 3,440. \\ + 30,100. \\ \hline 33,927. \end{array}$$

IX. $9 \cdot 1.11 = 9.99$

$$\begin{array}{r} 9. \quad \leftarrow 0 \text{ decimal} \\ \times 1.11 \quad \leftarrow 2 \text{ decimal} \\ \hline \downarrow \\ \begin{array}{r} 9. \\ \times 111. \\ \hline 9. \\ 90. \\ + 900. \\ \hline 999. \end{array} \end{array}$$

↓ decimal movement (2)

9.99

XII. $15 \cdot 5.5 = 82.5$

$$\begin{array}{r} 15. \quad \leftarrow 0 \text{ decimal} \\ \times 5.5 \quad \leftarrow 1 \text{ decimal} \\ \hline \downarrow \\ \begin{array}{r} 15. \\ \times 55. \\ \hline 75. \\ + 750. \\ \hline 825. \end{array} \end{array}$$

↓ decimal movement (1)

82.5

Multiplication Practice

XIII. $0.1 \cdot 0.1 = 0.01$

$$\begin{array}{r}
 0.1 \quad \leftarrow 1 \text{ decimal} \\
 \times 0.1 \quad \leftarrow 1 \text{ decimal} \\
 \hline
 01. \\
 \times 01. \\
 \hline
 1. \\
 + 00. \\
 \hline
 1. \\
 \downarrow \text{decimal movement (2)} \\
 0.01
 \end{array}$$

XVI. $14,300 \cdot 18,900 = 270,270,000$

$$\begin{array}{r}
 14,300. \\
 \times 18,900. \\
 \hline
 0. \\
 00. \\
 12,870,000. \\
 114,400,000. \\
 + 143,000,000. \\
 \hline
 270,270,000.
 \end{array}$$

XIV. $89 \cdot 6 = 534$

$$\begin{array}{r}
 89. \\
 \times 6. \\
 \hline
 534.
 \end{array}$$

XVII. $0.505 \cdot 20.05 = 10.12525$

$$\begin{array}{r}
 0.505 \quad \leftarrow 3 \text{ decimal} \\
 \times 20.05 \quad \leftarrow 2 \text{ decimal} \\
 \hline
 0505. \\
 \times 20.05. \\
 \hline
 2,525. \\
 00. \\
 000. \\
 + 1,010,000. \\
 \hline
 1,012,525. \\
 \downarrow \text{decimal movement (5)} \\
 10.12525
 \end{array}$$

XV. $0.545 \cdot 0.2455 = 0.1337975$

$$\begin{array}{r}
 0.545 \quad \leftarrow 3 \text{ decimal} \\
 \times 0.2455 \quad \leftarrow 4 \text{ decimal} \\
 \hline
 0545. \\
 \times 02455. \\
 \hline
 2,725. \\
 27,250. \\
 218,000. \\
 1,090,000. \\
 + 00,000. \\
 \hline
 1,337,975. \\
 \downarrow \text{decimal movement (7)} \\
 0.1337975
 \end{array}$$

XVIII. $35,555.7 \cdot 7.9 = 280,890.03$

$$\begin{array}{r}
 35,555.7 \quad \leftarrow 1 \text{ decimal} \\
 \times 7.9 \quad \leftarrow 1 \text{ decimal} \\
 \hline
 355,557. \\
 \times 79. \\
 \hline
 3,200,013. \\
 + 24,888,990. \\
 \hline
 28,089,003. \\
 \downarrow \text{decimal movement (2)} \\
 280,890.03
 \end{array}$$

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XIX. $1,222,222 \cdot 13,789.09 = 16,853,329,157.98$

$$\begin{array}{r}
 1,222,222. \quad \leftarrow 0 \text{ decimal} \\
 \times 13,789.09 \quad \leftarrow 2 \text{ decimal} \\
 \hline
 \downarrow \\
 \begin{array}{r}
 1,222,222. \\
 \times 1,378,909. \\
 \hline
 10,999,998. \\
 00. \\
 1,099,999,800. \\
 9,777,776,000. \\
 8,555,5540,000. \\
 366,666,600,000. \\
 + 1,222,222,000,000. \\
 \hline
 1,685,332,915,798. \\
 \downarrow \text{ decimal movement (2)} \\
 16,853,329,157.98
 \end{array}
 \end{array}$$

XX. $1,000,000.005 \cdot 0.000005 = 5.000000025$

$$\begin{array}{r}
 1,000,000.005 \quad \leftarrow 3 \text{ decimal} \\
 \times 0.000005 \quad \leftarrow 6 \text{ decimal} \\
 \hline
 \downarrow \\
 \begin{array}{r}
 1,000,000,005. \\
 \times 0,000,005. \\
 \hline
 5,000,000,025. \\
 00. \\
 000. \\
 0,000. \\
 00,000. \\
 000,000. \\
 + 0,000,000. \\
 \hline
 5,000,000,025. \\
 \downarrow \text{ decimal movement (9)} \\
 5.000000025
 \end{array}
 \end{array}$$