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Memorizing Multiplication Facts

A-MM 1

Memorizing the Multiplication Table can be a challenge. Fortunatly, a few basic math rules reduce the amount of multiplication facts that you need to actually memorize. This page is a summary of those rules.

Multiplication Rules:

1. **Zero Property : Anything times zero is zero.**
   You don't have to memorize multiplication facts involving zero.
   The answer is always just 0.

   Example: $7 \times 0 = 0$

2. **Identity Property : Anything times 1 is just itself.**
   You don't have to memorize multiplication facts involving 1.
   The answer is always just the same number you started with.

   Example: $9 \times 1 = 9$

3. **Times 10 : Anything times 10 just gets an extra zero stuck to the end.**
   You don't have to memorize multiplication facts involving 10.
   You just put an extra zero on the end of the number being multiplied by 10.

   Example: $4 \times 10 = 40$

4. **Commutative Property : You can switch the order of a multiplication problem.**
   You don't have to memorize both combinations of a multiplication problem.
   You get the same answer no matter which order the numbers are in.

If you know:	Then you also know:
$3 \times 5 = 15$	$5 \times 3 = 15$

Multiplication Table:

Knowing the rules above means that you only really need to memorize the 36 multiplication facts shown in white on this table.

	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18
3	3	6	9	12	15	18	21	24	27
4	4	8	12	16	20	24	28	32	36
5	5	10	15	20	25	30	35	40	45
6	6	12	18	24	30	36	42	48	54
7	7	14	21	28	35	42	49	56	63
8	8	16	24	32	40	48	56	64	72
9	9	18	27	36	45	54	63	72	81

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Review of Basic Multiplication Facts

A-MM 2

Instructions: Multiply these numbers. (This set includes the 36 multiplication facts you really need to memorize.)

5 × 8 = 40	7 × 5 = 35	2 × 2 = 4	4 × 6 = 24	3 × 8 = 24
7 × 3 = 21	3 × 2 = 6	2 × 6 = 12	2 × 5 = 10	8 × 9 = 72
4 × 2 = 8	6 × 6 = 36	3 × 4 = 12	9 × 4 = 36	3 × 3 = 9
6 × 7 = 42	7 × 4 = 28	5 × 6 = 30	6 × 8 = 48	7 × 8 = 56
7 × 7 = 49	2 × 7 = 14	9 × 3 = 27	9 × 5 = 45	
3 × 5 = 15	8 × 8 = 64	2 × 8 = 16	2 × 9 = 18	
5 × 5 = 25	3 × 6 = 18	4 × 4 = 16	9 × 9 = 81	
8 × 4 = 32	7 × 9 = 63	4 × 5 = 20	6 × 9 = 54	

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Re-Writing Multiplication Problems

A-MM 3

Instructions: Re-write these multiplication problems in stacked form. You do NOT need to actually multiply them.

1. 84×7

$$\begin{array}{r} 84 \\ \times\ 7 \\ \hline \end{array}$$

2. 6×143

$$\begin{array}{r} 143 \\ \times\ 6 \\ \hline \end{array}$$

3. 4×19

$$\begin{array}{r} 19 \\ \times\ 4 \\ \hline \end{array}$$

4. 8×135

$$\begin{array}{r} 135 \\ \times\ 8 \\ \hline \end{array}$$

5. 78×5

$$\begin{array}{r} 78 \\ \times\ 5 \\ \hline \end{array}$$

6. 716×4

$$\begin{array}{r} 716 \\ \times\ 4 \\ \hline \end{array}$$

7. 320×9

$$\begin{array}{r} 320 \\ \times\ 9 \\ \hline \end{array}$$

8. 6×512

$$\begin{array}{r} 512 \\ \times\ 6 \\ \hline \end{array}$$

9. $1{,}061 \times 5$

$$\begin{array}{r} 1{,}061 \\ \times\ 5 \\ \hline \end{array}$$

10. $7 \times 2{,}378$

$$\begin{array}{r} 2{,}378 \\ \times\ 7 \\ \hline \end{array}$$

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Multi-Digit Multiplication

A-MM 4

Instructions: Follow the procedure you learned in the video to multiply these numbers.

1. $62 \times 3 = 186$
2. $97 \times 2 = 194$ (1 carried)
3. $38 \times 5 = 190$ (4 carried)
4. $18 \times 6 = 108$ (4 carried)
5. $26 \times 6 = 156$ (3 carried)
6. $67 \times 3 = 201$ (2 carried)
7. $52 \times 4 = 208$
8. $33 \times 8 = 264$ (2 carried)
9. $57 \times 4 = 228$ (2 carried)
10. $64 \times 8 = 512$ (3 carried)
11. $135 \times 5 = 675$ (12 carried)
12. $216 \times 4 = 864$ (2 carried)

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Multi-Digit Multiplication - Set 2

A-MM 5

Instructions: Follow the procedure you learned in the video to multiply these numbers.

1
$$\begin{array}{r} {\scriptstyle 1} \\ 346 \\ \times\ \ 2 \\ \hline 692 \end{array}$$

2
$$\begin{array}{r} {\scriptstyle 1} \\ 402 \\ \times\ \ 7 \\ \hline 2{,}814 \end{array}$$

3
$$\begin{array}{r} {\scriptstyle 12} \\ 145 \\ \times\ \ 4 \\ \hline 580 \end{array}$$

4
$$\begin{array}{r} {\scriptstyle 31} \\ 873 \\ \times\ \ 5 \\ \hline 4{,}365 \end{array}$$

5
$$\begin{array}{r} {\scriptstyle 1} \\ 841 \\ \times\ \ 3 \\ \hline 2{,}523 \end{array}$$

6
$$\begin{array}{r} {\scriptstyle 8} \\ 609 \\ \times\ \ 9 \\ \hline 5{,}481 \end{array}$$

7
$$\begin{array}{r} {\scriptstyle 2} \\ 419 \\ \times\ \ 3 \\ \hline 1{,}257 \end{array}$$

8
$$\begin{array}{r} {\scriptstyle 11} \\ 586 \\ \times\ \ 2 \\ \hline 1{,}172 \end{array}$$

9
$$\begin{array}{r} {\scriptstyle 26} \\ 728 \\ \times\ \ 8 \\ \hline 5{,}824 \end{array}$$

10
$$\begin{array}{r} {\scriptstyle 1} \\ 820 \\ \times\ \ 6 \\ \hline 4{,}920 \end{array}$$

11
$$\begin{array}{r} {\scriptstyle 32} \\ 243 \\ \times\ \ 9 \\ \hline 2{,}187 \end{array}$$

12
$$\begin{array}{r} {\scriptstyle 24} \\ 536 \\ \times\ \ 7 \\ \hline 3{,}752 \end{array}$$

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Multi-Digit Multiplication - Set 3

A-MM 6

Instructions: Follow the procedure you learned in the video to multiply these numbers.

1. $\begin{array}{r} {\scriptstyle 3} \\ 24 \\ \times\ 8 \\ \hline 192 \end{array}$

2. $\begin{array}{r} {\scriptstyle 1} \\ 63 \\ \times\ 5 \\ \hline 315 \end{array}$

3. $\begin{array}{r} {\scriptstyle 2} \\ 73 \\ \times\ 7 \\ \hline 511 \end{array}$

4. $\begin{array}{r} 51 \\ \times\ 9 \\ \hline 459 \end{array}$

5. $\begin{array}{r} {\scriptstyle 2} \\ 329 \\ \times\ 3 \\ \hline 987 \end{array}$

6. $\begin{array}{r} {\scriptstyle 11} \\ 795 \\ \times\ 2 \\ \hline 1{,}590 \end{array}$

7. $\begin{array}{r} {\scriptstyle 2} \\ 617 \\ \times\ 4 \\ \hline 2{,}468 \end{array}$

8. $\begin{array}{r} {\scriptstyle 22} \\ 834 \\ \times\ 6 \\ \hline 5{,}004 \end{array}$

9. $\begin{array}{r} {\scriptstyle 1\ 2} \\ 1{,}306 \\ \times\ 4 \\ \hline 5{,}224 \end{array}$

10. $\begin{array}{r} {\scriptstyle 153} \\ 3{,}286 \\ \times\ 6 \\ \hline 19{,}716 \end{array}$

11. $\begin{array}{r} {\scriptstyle 2\ 1} \\ 9{,}312 \\ \times\ 8 \\ \hline 74{,}496 \end{array}$

12. $\begin{array}{r} {\scriptstyle 2} \\ 4{,}072 \\ \times\ 3 \\ \hline 12{,}216 \end{array}$