

Shortcuts for Multiplication Facts

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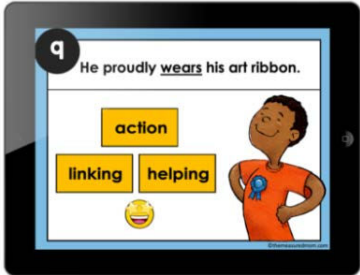


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TYPES OF VERBS

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Self-checking!




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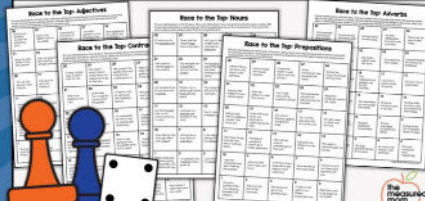
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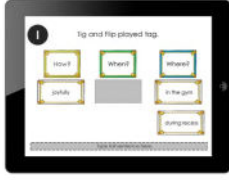
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How to Use

When teaching students multiplication, teach the foundational facts first (2's, 10's, 5's, 1's, and 0's). Use their knowledge of those facts to teach strategies for learning the other facts. The following chart will be a helpful reference.

The chart is part of the following mini-course, which contains these lessons:

- Do's and don'ts for teaching multiplication facts
- 4 models of multiplication
- Properties of multiplication
- A recommended order for teaching the facts
- Strategies for learning multiplication facts
- Games for math fact fluency

SHORTCUTS FOR MULTIPLICATION FACTS

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x 0	The product is always zero.	$5 \times 0 = 0$	
x 1	It's just that number!	$8 \times 1 = 8$	
x 2	Double it.	$5 \times 2 = ?$ $5 + 5 = 10$, so $5 \times 2 = 10$	
x 3	Double it and add <u>one more group</u> .	$6 \times 3 = ?$ $6 + 6 = 12$ $12 + 6 = 18$ $6 \times 3 = 18$	
x 4	Double and <u>double again</u> .	$3 \times 4 = ?$ $3 + 3 = 6$ $6 + 6 = 12$, so $3 \times 4 = 12$	
x 5	Count by 5's that many times.	$7 \times 5 = ?$ Count by 5's seven times. 5, 10, 15, 20, 25, 30, 35. $7 \times 5 = 35$	
x 6	Multiply by 5 and add <u>one more group</u> .	$4 \times 6 = ?$ $4 \times 5 = 20$ $20 + 4 = 24$, so $4 \times 6 = 24$	
x 7	Multiply by 5 and <u>add a double</u> .	$8 \times 7 = ?$ $8 \times 5 = 40$ $40 + 16 = 56$	
x 8	Double, double, and double.	$3 \times 8 = ?$ $3 + 3 = 6$ $6 + 6 = 12$ $12 + 12 = 24$, so $3 \times 8 = 24$	
x 9	Multiply by 10, and subtract <u>one group</u> - OR - Start your answer with <i>one less</i> than the number. The second digit is the number that will make the sum of the digits equal 9.	$8 \times 9 = ?$ $8 \times 10 = 80$ $80 - 8 = 72$, so $8 \times 9 = 72$	$8 \times 9 = ?$ Start with 8 - 1. 7 ____ $7 + 2 = 9$, so $8 \times 9 = 72$
x 10	Write the factor, and add 0.	$7 \times 10 = 70$	
x 11	For numbers 1-10, write the number twice - OR - Multiply by 10, and <u>add a group</u> .	$5 \times 11 = 55$	$5 \times 11 = ?$ $5 \times 10 = 50$ $50 + 5 = 55$, so $5 \times 11 = 55$
x 12	Multiply by 10, and <u>add a double</u> .	$4 \times 12 = ?$ $4 \times 10 = 40$ $40 + 8 = 48$, so $4 \times 12 = 48$	