	"Th	ere's Always Nothing"	
Multiplying	When you multiply by 0 your answer is always 0. To help think of it as a word problem:		
by 0			
	Ms. Kennedy loves to make blue	perry pancakes. Today she made 5 pancakes. Each had 0	
	Divederries. How many divederry pancakes all she make? 5 χ Ω − Ω		
	"Thoma's Tust 1 Cat"		
Multiplying	M/han you multiply by 1 your anguan is always the other factor		
Бут	because you only have 1 set.		
	Mrs. Kennedy started collecting	marbles. She bought 1 bag of marbles that had 9 inside.	
	How many marbles did she buy?		
	1 x 9 = 9		
	"DOUBLE IT!"		
Multiplying			
by 2	When you multiply by 2 you can double the other factor.		
	2 x 8 = 16	7 × 2 = 14	
	(8 + 8 = 16)	(7 + 7 = 14)	
	"Double Plus a Set"		
	When you multiply by 3 you can double the other factor and then		
Multiplying	olving add one more set.		
by 3	3 x 8 = 24	3 × 7 = 21	
-, -	(2 × 8) + (1 × 8)	$(2 \times 7) + (1 \times 7)$	
	8 + 8 = 16	7 + 7 = 14	
	16 + 8 = 24	14 + 7 = 21	
	"Order a Double-Double!"		
	When you multiply by 4 you can double the other factor twice.		
Multinking	5 x 4 = 20	, 4 x 6 = 24	
by A	5 + 5 = 10	6 + 6 = 12	
Бут	10 + 10 = 20	12 + 12 = 24	
		in · in - n	

	"Skip Count By 5's"		
Multiplying	When you multiply by 5 you can skip count to help solve.		
by 5	5 x 6 = 30	3 × 5 = 15	
·	(5, 10, 15, 20, 25, 30)	(5, 10, 15)	
	There are two strategies to multiply by 6		
	"Multiply by 5 then Add a Set"		
Multiplying	When you multiply by 6 you can skip count by 5's then add another		
by 6	set.	5 groups	
	6 x 6 = 36	$3 \times 6 = 18$ Think: Think: 3 plus one of 3	
	$(5 \times 6) + (1 \times 6)$	$(3 \times 5) + (3 \times 1)$	
	$5 \times 6 = 30$ $1 \times 6 = 6$	3 × 5 = 15 3 × 1 = 3	
	30 + 6 = 36	15 + 3 = 18	
	DOUBLE IT! If you know how to multiply by 3, then you can double the product.		
Multinlying			
by 6	6 x 6 = 36	4 x 6 = 24	
by 0	3 x 6 = 18	4 × 3 = 12	
	18 + 18 = 36	12 + 12 = 24	
	Break it up!		
Multiplying	When you multiply by 7, you can break it up to help you find the		
by 7	product.		
	7 x 6 = 42	7 x 3 = 15	
	(5x6) + (2x6)	(5x3) + (2x3)	
	5x6 =30, 2x6 = 12	° 5x3 = 15, 2x3=6	
	30 + 12 = 42	⁷⁼⁵⁺² 15 + 6=21	
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	Lione and two stantacies to multiply by O				
	Here are two strategies to multiply by 8				
		DOUBLE IT!			
	If you know how to multiply by 4, then you can double the product.				
	8 × 6 = 48	4 × 8 = 32			
Multiplying	4 x 6 = 24	4 × 4 = 16			
by 8	24 + 24 = 48	16 + 16 = 32			
	Double-Double-Double!				
	When you multiply by 8 you can double the other factor three times.				
	8 × 5 = 40				
	2 x 5 = 10 - double once - 5 + 5 = 10				
	2 x 10 = 20 🔸 double twice → 10 + 10= 20				
	2 x 20 = 40 🔹	double three times \rightarrow 20 + 20 = 40			
Multiplying	I here are two s	trategies for Multiplying by 9			
		"Think 10"			
	If I know how to multiply by ten, I know the product when				
	multiplying by 9 is one decade less and the sum of the tens digit				
	and the ones digit always equals nine.				
by 9	$9 \times 6 \rightarrow I$ know 10 x 6 = 60 so the product is in the 50's				
	9 x 6 = 5 <u>?</u> I know 5 +	4 = 9 so 9 x 6 = 54			
	"Multiply by 10 then Take a Set Away"				
	When you multiply by 9 you can multiply by 10 then take a set				
	away.				
	9 x 6 = 54	3 × 9 = 27			
	(10 × 6 = 60, 60 - 6 = 5	54) (3 × 10 = 30, 30 - 3 = 27)			