



**WATCH ME FIRST!**



**We can solve the 9s facts using the 10s facts:**

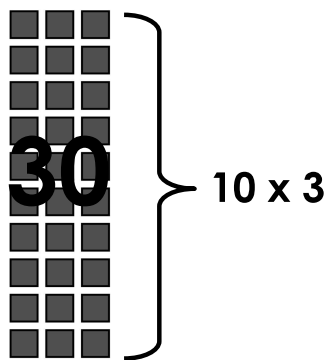
1<sup>st</sup> – Find the related 10s fact.

2<sup>nd</sup> – Subtract one group to solve the 9s fact.

**EXAMPLE:** Find the product of  $9 \times 3$ .

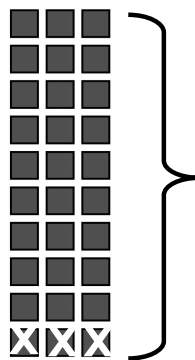
**STEP 1**

$9 \times 3$  is related to  $10 \times 3$



**STEP 2**

Subtract one group from the 10's fact



$$9 \times 3 = (10 \times 3) - (1 \times 3)$$

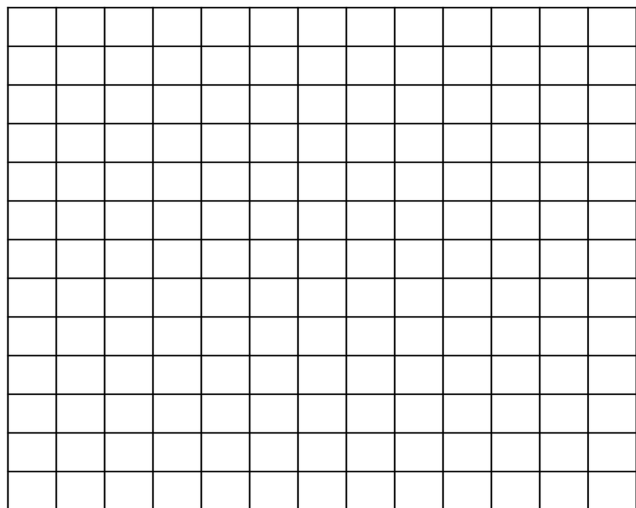
$$\begin{array}{r} 30 \\ - 3 \\ \hline 27 \end{array}$$

**LET'S WORK TOGETHER!**

1) Draw a model and complete the steps to solve  $9 \times 4$ .

**DRAW**

**RECORD & SOLVE**



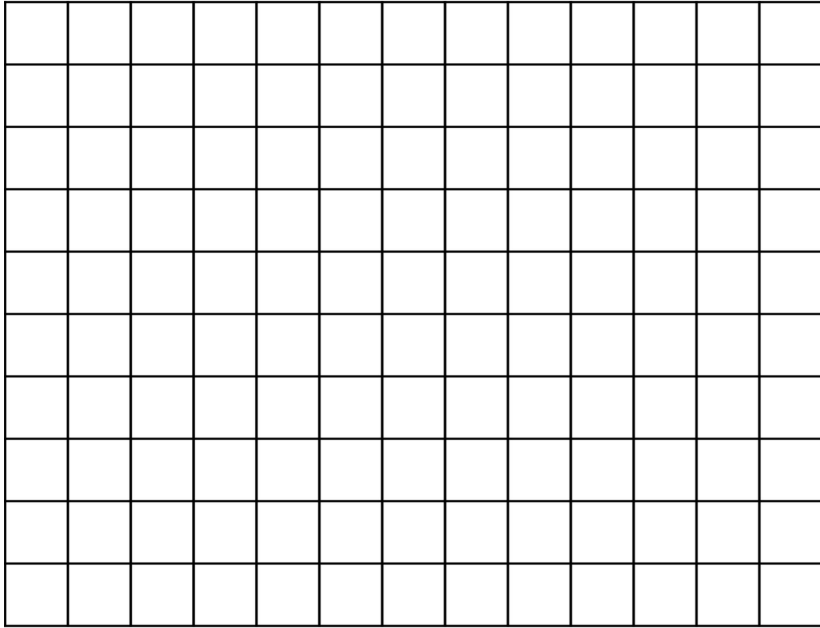


**LET'S WORK TOGETHER!** (continued)

2) Draw a model and complete the steps to solve  $9 \times 5$ .

**DRAW**

**RECORD & SOLVE**



**Directions:** Fill in the multiplication chart below using information from Problems 1 and 2.

What patterns do you notice when multiplying between the 9s and 10s facts?

	<b>9s Facts</b>	<b>10s Facts</b>
x1	$9 \times 1 = 9$	$10 \times 1 = 10$
x2	$9 \times 2 = 18$	$10 \times 2 = 20$
x3	$9 \times 3 = 27$	$10 \times 3 = 30$
x4		
x5		

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### YOUR TURN!

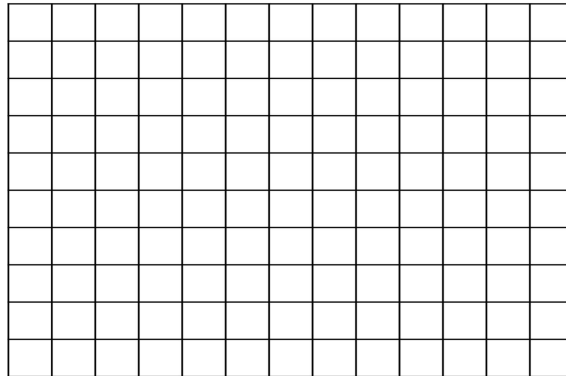
**Directions:** For problems 1 – 7 find the products by drawing models and showing your work. Fill in the chart below.

9s Facts	10s Facts
$9 \times 1 =$	$10 \times 1 =$
$9 \times 2 =$	$10 \times 2 =$
$9 \times 3 =$	$10 \times 3 =$
$9 \times 4 =$	$10 \times 4 =$
$9 \times 5 =$	$10 \times 5 =$
$9 \times 6 =$	$10 \times 6 =$
$9 \times 7 =$	$10 \times 7 =$
$9 \times 8 =$	$10 \times 8 =$
$9 \times 9 =$	$10 \times 9 =$
$9 \times 10 =$	$10 \times 10 =$
$9 \times 11 =$	$10 \times 11 =$
$9 \times 12 =$	$10 \times 12 =$

1) Use the strategy we just learned to find the product of  $9 \times 6$ .

**DRAW**

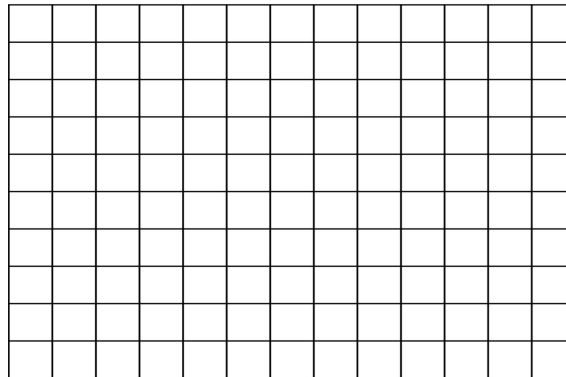
**RECORD & SOLVE**



2) Use the strategy we just learned to find the product of  $9 \times 7$ .

**DRAW**

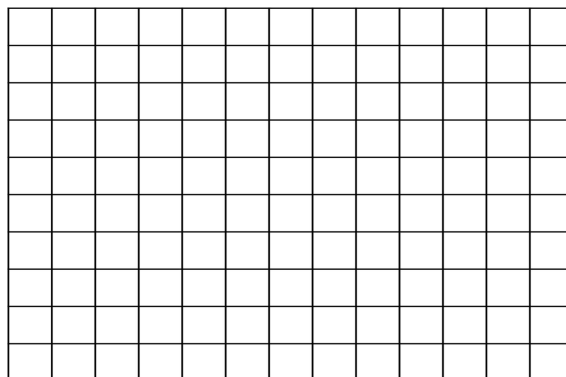
**RECORD & SOLVE**



3) Use the strategy we just learned to find the product of  $9 \times 8$ .

**DRAW**

**RECORD & SOLVE**

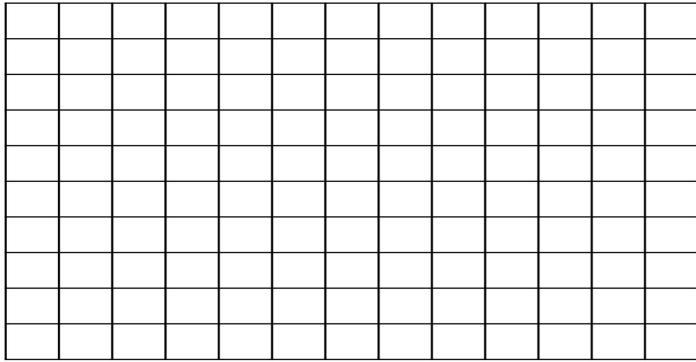




**YOUR TURN!** (continued)

4) Use the strategy we just learned to find the product of  $9 \times 9$ .

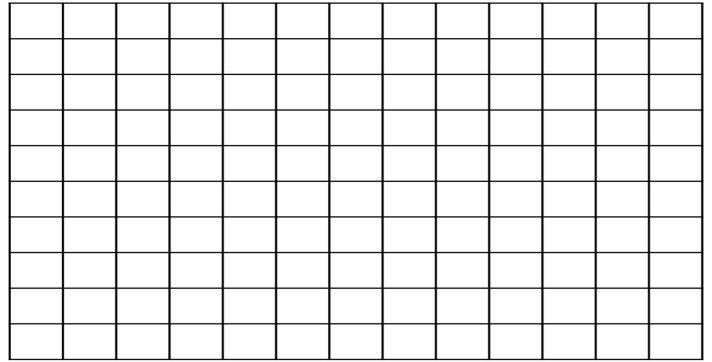
**DRAW**



**RECORD & SOLVE**

5) Use the strategy we just learned to find the product of  $9 \times 10$ .

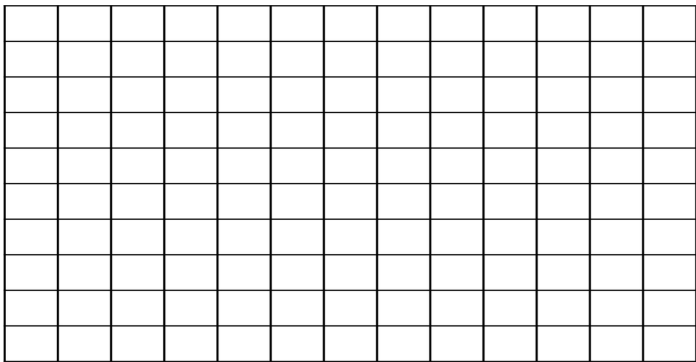
**DRAW**



**RECORD & SOLVE**

6) Use the strategy we just learned to find the product of  $9 \times 11$ .

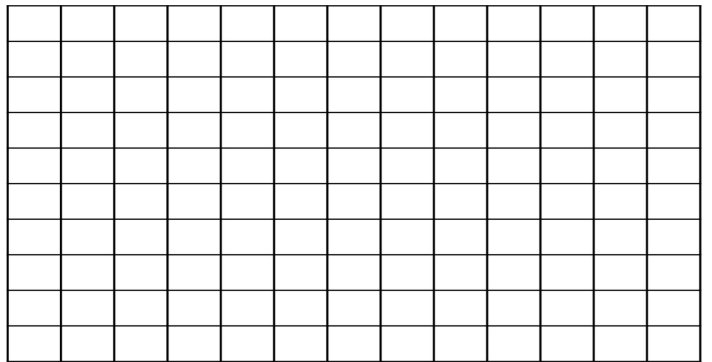
**DRAW**



**RECORD & SOLVE**

7) Use the strategy we just learned to find the product of  $9 \times 12$ .

**DRAW**



**RECORD & SOLVE**



**YOUR TURN!** (continued)

8) Explain the strategy we used to find the product of a 9s times table fact.

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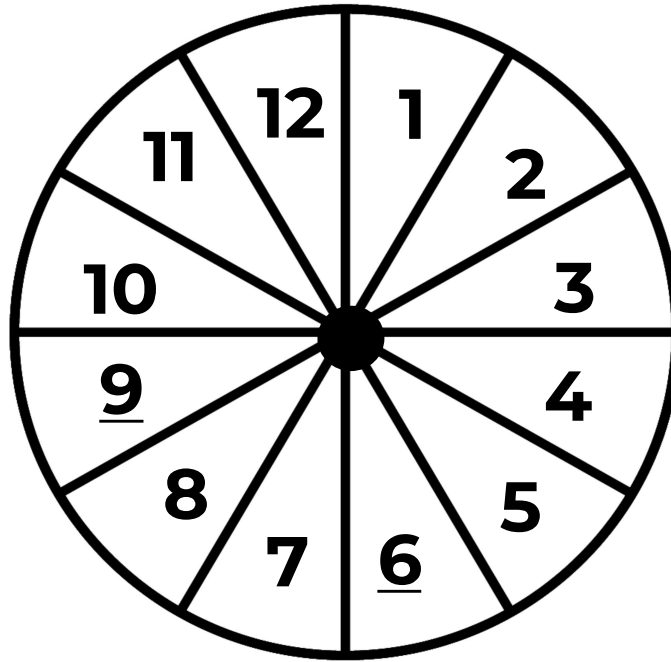
# MULTIPLICATION

## 9s TIMES TABLE WORKSHEET

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**DIRECTIONS:** Use a paper clip, pencil and number wheel to spin a number. Fill in the multiplication equation using the number as a factor. Solve. Move to the next problem and repeat.



1.  $9 \times \underline{\quad} = \underline{\quad}$

11.  $\underline{\quad} \times 9 = \underline{\quad}$

2.  $9 \times \underline{\quad} = \underline{\quad}$

12.  $\underline{\quad} \times 9 = \underline{\quad}$

3.  $9 \times \underline{\quad} = \underline{\quad}$

13.  $\underline{\quad} \times 9 = \underline{\quad}$

4.  $9 \times \underline{\quad} = \underline{\quad}$

14.  $\underline{\quad} \times 9 = \underline{\quad}$

5.  $9 \times \underline{\quad} = \underline{\quad}$

15.  $\underline{\quad} \times 9 = \underline{\quad}$

6.  $9 \times \underline{\quad} = \underline{\quad}$

16.  $\underline{\quad} \times 9 = \underline{\quad}$

7.  $9 \times \underline{\quad} = \underline{\quad}$

17.  $\underline{\quad} \times 9 = \underline{\quad}$

8.  $9 \times \underline{\quad} = \underline{\quad}$

18.  $\underline{\quad} \times 9 = \underline{\quad}$

9.  $9 \times \underline{\quad} = \underline{\quad}$

19.  $\underline{\quad} \times 9 = \underline{\quad}$

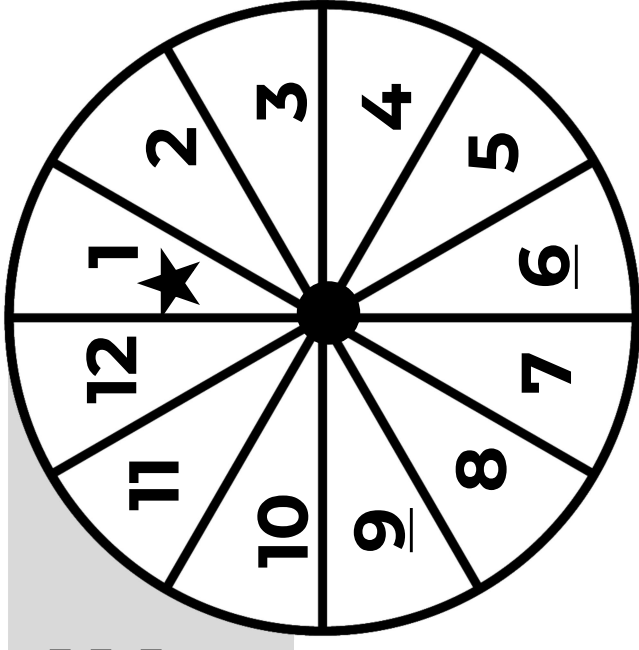
10.  $9 \times \underline{\quad} = \underline{\quad}$

20.  $\underline{\quad} \times 9 = \underline{\quad}$

PLAYER 1

# 9s TIMES TABLE

## EXTRA PRACTICE GAME



### GAMEBOARD

54	99	18	36	108	63
36	<div style="border: 1px solid black; padding: 5px; display: inline-block;">MY NUMBER</div> $9 \times \text{?} = \text{?}$				18
81					45
45					90
27					72
108					9
9	27				
90	54	72	81	99	63

### DIRECTIONS:

Object of Game:

The first player to fill in an entire row or column wins.

1) Player #1:

- Spins a number (NOTE: Number 1 has a star because it is a free choice. It can either be a 1 or any number the player selects).
  - Multiply the number by 2 to find the product
  - Place an "X" on the product on the gameboard. (i.e. Spin a 3. The product of 3 and 2 is 6. Place "X" on the 6)
- 2) If no match is found, Player #1 loses a turn.
- 3) Player #2 repeats the steps above.

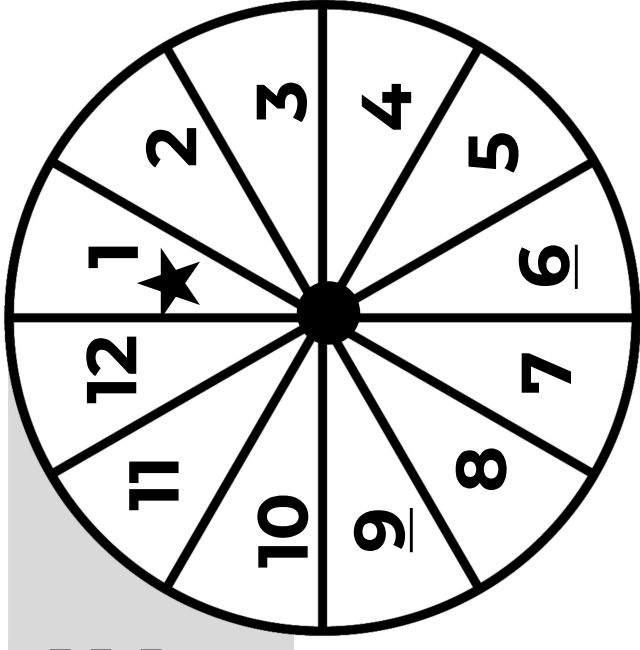
Materials:

- ✓ Player 1 and Player 2 Gameboards
- ✓ Pencils and Paper Clips

PLAYER 2

# 9s TIMES TABLE

## EXTRA PRACTICE GAME



### GAMEBOARD

54	99	18	36	108	63
36	<div style="border: 1px solid black; padding: 10px; display: inline-block;"> MY NUMBER </div> $9 \times \text{?} = \text{?}$				18
81					45
45					90
27					72
108					9
9	27				
90	54	72	81	99	63

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- 2) If no match is found, Player #1 loses a turn.
- 3) Player #2 repeats the steps above.

Materials:

- ✓ Player 1 and Player 2 Gameboards
- ✓ Pencils and Paper Clips



# Times Tables Game Answers

2 Times Tables	3 Times Tables	4 Times Tables	5 Times Tables	6 Times Tables	7 Times Tables
$1 \times 2 = 2$ $2 \times 2 = 4$ $3 \times 2 = 6$ $4 \times 2 = 8$ $5 \times 2 = 10$ $6 \times 2 = 12$ $7 \times 2 = 14$ $8 \times 2 = 16$ $9 \times 2 = 18$ $10 \times 2 = 20$ $11 \times 2 = 22$ $12 \times 2 = 24$	$1 \times 3 = 3$ $2 \times 3 = 6$ $3 \times 3 = 9$ $4 \times 3 = 12$ $5 \times 3 = 15$ $6 \times 3 = 18$ $7 \times 3 = 21$ $8 \times 3 = 24$ $9 \times 3 = 27$ $10 \times 3 = 30$ $11 \times 3 = 33$ $12 \times 3 = 36$	$1 \times 4 = 4$ $2 \times 4 = 8$ $3 \times 4 = 12$ $4 \times 4 = 16$ $5 \times 4 = 20$ $6 \times 4 = 24$ $7 \times 4 = 28$ $8 \times 4 = 32$ $9 \times 4 = 36$ $10 \times 4 = 40$ $11 \times 4 = 44$ $12 \times 4 = 48$	$1 \times 5 = 5$ $2 \times 5 = 10$ $3 \times 5 = 15$ $4 \times 5 = 20$ $5 \times 5 = 25$ $6 \times 5 = 30$ $7 \times 5 = 35$ $8 \times 5 = 40$ $9 \times 5 = 45$ $10 \times 5 = 50$ $11 \times 5 = 55$ $12 \times 5 = 60$	$1 \times 6 = 6$ $2 \times 6 = 12$ $3 \times 6 = 18$ $4 \times 6 = 24$ $5 \times 6 = 30$ $6 \times 6 = 36$ $7 \times 6 = 42$ $8 \times 6 = 48$ $9 \times 6 = 54$ $10 \times 6 = 60$ $11 \times 6 = 66$ $12 \times 6 = 72$	$1 \times 7 = 7$ $2 \times 7 = 14$ $3 \times 7 = 21$ $4 \times 7 = 28$ $5 \times 7 = 35$ $6 \times 7 = 42$ $7 \times 7 = 49$ $8 \times 7 = 56$ $9 \times 7 = 63$ $10 \times 7 = 70$ $11 \times 7 = 77$ $12 \times 7 = 84$
8 Times Tables	9 Times Tables	10 Times Tables	11 Times Tables	12 Times Tables	Square Facts
$1 \times 8 = 8$ $2 \times 8 = 16$ $3 \times 8 = 24$ $4 \times 8 = 32$ $5 \times 8 = 40$ $6 \times 8 = 48$ $7 \times 8 = 56$ $8 \times 8 = 64$ $9 \times 8 = 72$ $10 \times 8 = 80$ $11 \times 8 = 88$ $12 \times 8 = 96$	$1 \times 9 = 9$ $2 \times 9 = 18$ $3 \times 9 = 27$ $4 \times 9 = 36$ $5 \times 9 = 45$ $6 \times 9 = 54$ $7 \times 9 = 63$ $8 \times 9 = 72$ $9 \times 9 = 81$ $10 \times 9 = 90$ $11 \times 9 = 99$ $12 \times 9 = 108$	$1 \times 10 = 10$ $2 \times 10 = 20$ $3 \times 10 = 30$ $4 \times 10 = 40$ $5 \times 10 = 50$ $6 \times 10 = 60$ $7 \times 10 = 70$ $8 \times 10 = 80$ $9 \times 10 = 90$ $10 \times 10 = 100$ $11 \times 10 = 110$ $12 \times 10 = 120$	$1 \times 11 = 11$ $2 \times 11 = 22$ $3 \times 11 = 33$ $4 \times 11 = 44$ $5 \times 11 = 55$ $6 \times 11 = 66$ $7 \times 11 = 77$ $8 \times 11 = 88$ $9 \times 11 = 99$ $10 \times 11 = 110$ $11 \times 11 = 121$ $12 \times 11 = 132$	$1 \times 12 = 12$ $2 \times 12 = 24$ $3 \times 12 = 36$ $4 \times 12 = 48$ $5 \times 12 = 60$ $6 \times 12 = 72$ $7 \times 12 = 84$ $8 \times 12 = 96$ $9 \times 12 = 108$ $10 \times 12 = 120$ $11 \times 12 = 132$ $12 \times 12 = 144$	$1 \times 1 = 1$ $2 \times 2 = 2$ $3 \times 3 = 9$ $4 \times 4 = 16$ $5 \times 5 = 25$ $6 \times 6 = 36$ $7 \times 7 = 49$ $8 \times 8 = 64$ $9 \times 9 = 81$ $10 \times 10 = 100$ $11 \times 11 = 121$ $12 \times 12 = 144$