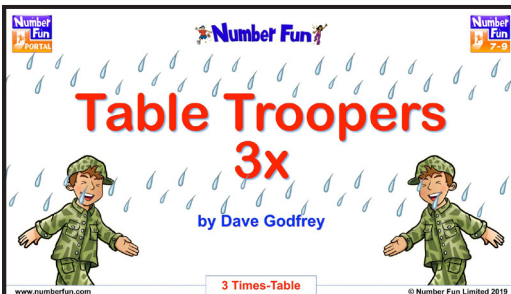


# Table Troopers

## 3x (In the Rain)

by Dave Godfrey



## Teacher Ideas Pack

Concept: 3 Times-Table



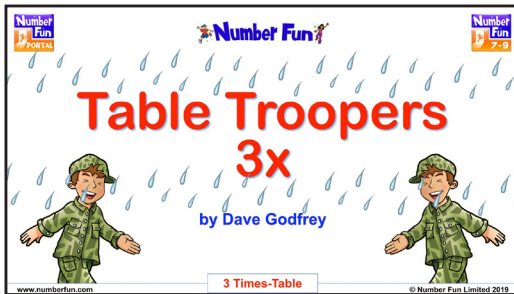
### Pack Contents:



- Teacher Ideas Sheet
- Music Score & Song Words
- Table Trooper Puzzle Game
- 3 Times-Table Bookmark
- Multiplication Triangles
- Multiplication Grid
- Parent Ideas Sheet (for reference)

**Please Note:** This ideas pack is for the sole use by the Number Fun Portal Login Owner.

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# Teacher Ideas Sheet

Title: **Table Troopers 3x (In the Rain)**

Concept: **3 Times Table**

Concept Video Link: \*\*\*\*\*

Song Type: **Concept** (ideal for understanding concepts)



## Core Information

**Song Overview:** Table Troopers 3 helps children learn and recall the 3 Times-Table. In the song, children practice the multiples of 3, recall the table in order and then out of order.

**Helpful Resources:** See the printable documents attached. A soldier hat or jacket for the song leader.

**Key Vocabulary:** multiply, times, product, multiplicand, multiplier, division, dividend, divisor, quotient

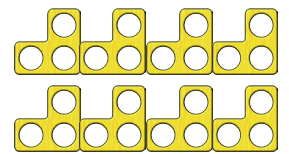
**Top Teaching Tip:** When I used this song as a classroom teacher, I challenged the children who knew their 3 Times-Table to look at me instead of looking at the screen. This song became an assessment tool on whether the children knew their 3 Times-Table, as well as a popular way of helping them learn and practice table facts.



## Make it Active!

(alongside online Video Presentation, Full Track or Backing Track mp3s)

**M1: Marching to the Beat** When I present this song, I have the children marching during the chorus, introduction and verse 1. In verses 2 and 3, I encourage them to stand to attention and then salute me when they state the product.



**M2: Models and Images** The image on the screen is that of a Slavonic Abacus. Challenge the children to show you the multiplication facts using Number Shapes or another resource in the classroom.  $3 \times 8 = 24$



## Video Reasoning Ideas

(using online Video Presentation)

**V1: Multiplication Abacus Image** Each multiplication fact on the video is accompanied by its Slavonic Abacus image. Pause the track at (e.g. 2:40) and discuss the abacus image. What is the relevance of the red and yellow dots? What do they show you?

Right Table Troopers, time for Trooper Table Facts:		
3 x 1 is what?	●●●	3 x 1 is 3
3 x 2 is what?	●●●●●	3 x 2 is 6
3 x 3 is what?	●●●●●●	3 x 3 is 9
3 x 4 is what?	●●●●●●●	3 x 4 is 12
3 x 5 is what?	●●●●●●●●	3 x 5 is 15
3 x 6 is what?	●●●●●●●●●	3 x 6 is 18
3 x 7 is what?	●●●●●●●●●●	3 x 7 is 21

**V2: Mini-Facts** Pause the video at (2:21) and reason about the calculation  $3 \times 7$ . What two mini-multiplication facts do the colours in the image show? (i.e.  $3 \times 5 = 15$  and  $3 \times 2 = 6$ ). What other mini-facts can you see as the video progresses?



## Song Adaptation Ideas

(see downloadable PowerPoint File and online Backing Track mp3)

**S1: Backing Track** On the Number Fun Portal there is a version of this song for all the tables from 1 - 12. When the children are confident have a go with the backing track recording, which has the multiples and products removed. One group of children being the Sergeant and the rest of the children can act as the troopers.



## Activity Ideas

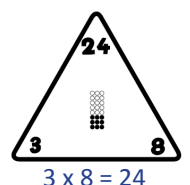
**A1: Table Trooper Puzzle Game:** **Aim:** To win the most points during the completion of the gameboard. 2-player game.

**You will need:** One copy of the 'Table Trooper Puzzle Pieces' but cut up into 30 rectangles and the pieces popped in a bag. You need one copy of the 'Table Trooper Puzzle Gameboard' for each game and two highlighters/coloured pens.

**Rules:** Players take it in turns to choose a random rectangle piece from the bag and highlight the rectangle on the gameboard using their coloured highlighter.

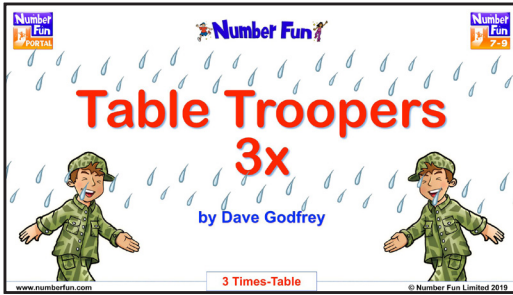
**Points:** On each turn, players predict the table fact the next rectangle will be from. For example, a player might say, 'I think the next rectangle will be from  $3 \times 6 = 18$ !' If the player then picks out the number 3 or 6 or the image of 18 balloons, they win 3 points! Players keep a tally of their points. At the end of the game players win; (A) 30 bonus points for each row that is just highlighted in their coloured pen (B) Bonus points for the biggest run of boxes highlighted in their colour in a column. 3 points per highlighted box in the run. E.g. 4 boxes in a row, wins 12 points.

**A2: Multiplication Triangles:** Print out and laminate the triangles for longevity. Each triangle has the multiplicand (3) in the bottom left hand corner, the multiplier (8) in the bottom right, and the product (24) at the top.



**Cover Up:** One person covers up one or two of the numbers and the partner has to reason what the multiplication or division fact is.

**Describe Me:** One person covers up the image and their partner has to describe or draw the image to win the triangle.



# Song Words

Title: Table Troopers 3x (In the Rain)



Song Words © Dave Godfrey, Number Fun Limited 2019



**Table Troopers! Table Troopers!**  
**Learning as we march along!**  
**Table Troopers! Table Troopers!**  
**With this 3 Times-Table song!**

**Verse 1:**

**S: Right Troopers, marching in multiples of 3, go! 3, 6, 9, 12,**

**C: 3, 6, 9, 12,**

**S: 15, 18, 21, 24,**

**C: 15, 18, 21, 24,**

**S: 27, 30, 33, 36,**

**C: 27, 30, 33, 36,**

**T: Troopers Only! Marching in multiples of 3, go!**

**C: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36!**

**Verse 2:**

**S: Right Troopers, time for Trooper Table Facts:**

**3 x 1 is what? 3 x 1 is 3!**

**3 x 2 is what? 3 x 2 is 6!**

**3 x 3 is what? 3 x 3 is 9!**

**3 x 4 is what? 3 x 4 is 12!**

**3 x 5 is what? 3 x 5 is 15!**

**3 x 6 is what? 3 x 6 is 18!**

**3 x 7 is what? 3 x 7 is 21!**

**3 x 8 is what? 3 x 8 is 24!**

**3 x 9 is what? 3 x 9 is 27!**

**3 x 10 is what? 3 x 10 is 30!**

**3 x 11 is what? 3 x 11 is 33!**

**3 x 12 is what? 3 x 12 is 36!**

**Verse 3:**

**S: Right Troopers, time for Trooper Table Testing:**

**3 x 3 is what? 3 x 3 is 9!**

**3 x 4 is what? 3 x 4 is 12!**

**3 x 2 is what? 3 x 2 is 6!**

**3 x 10 is what? 3 x 10 is 30!**

**3 x 9 is what? 3 x 9 is 27!**

**3 x 7 is what? 3 x 7 is 21!**

**3 x 11 is what? 3 x 11 is 33!**









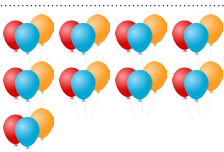
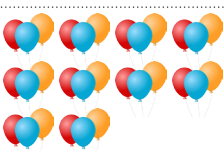
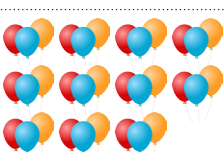
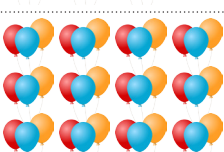
**3 x 5 is what? 3 x 5 is 15!**

**3 x 6 is what? 3 x 6 is 18!**

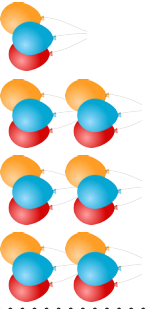
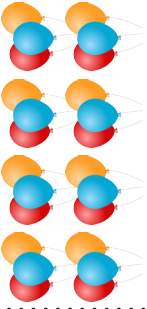
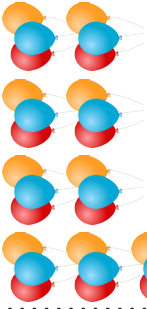
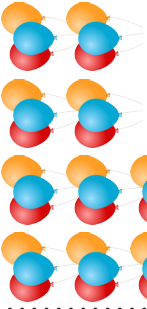
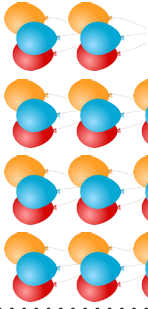
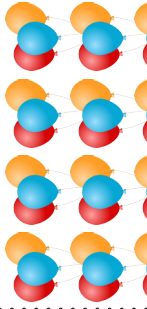












**3 x 12 is what? 3 x 12 is 36!**

**3 x 8 is what? 3 x 8 is 24!**

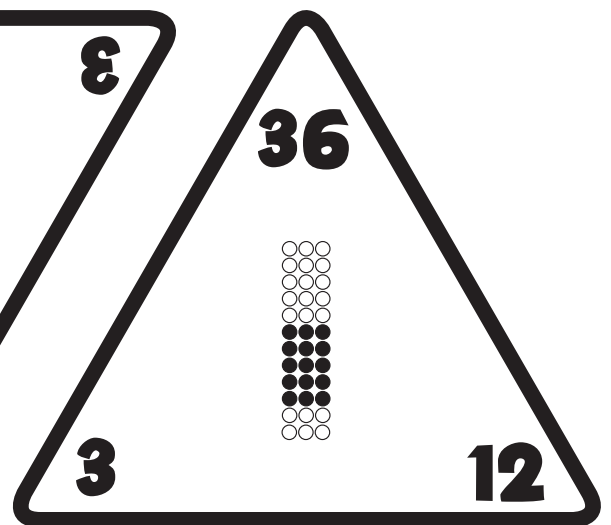
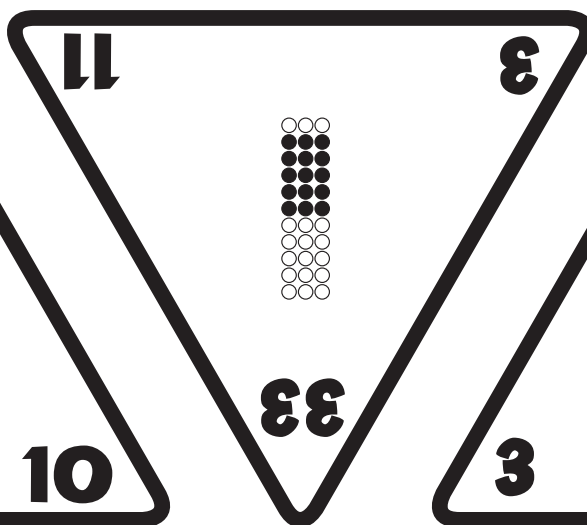
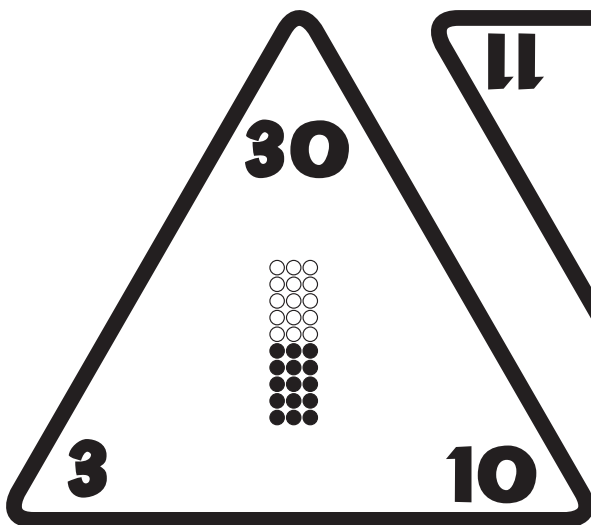
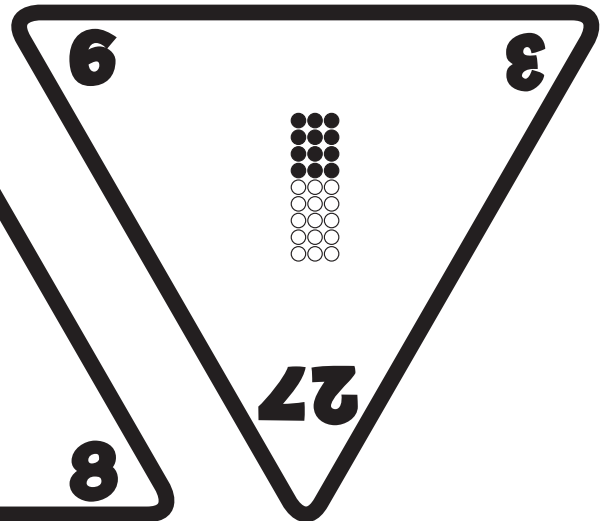
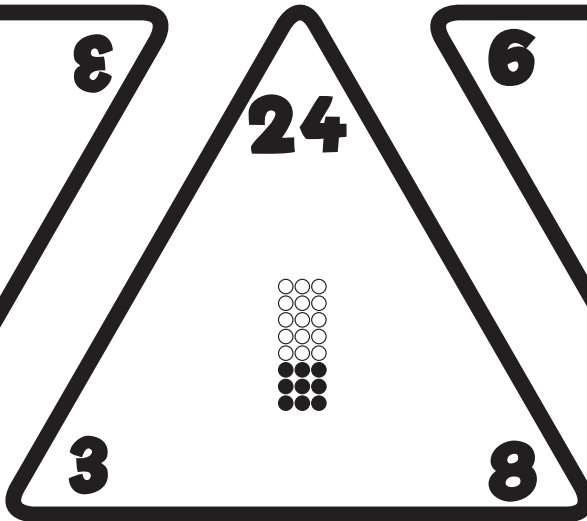
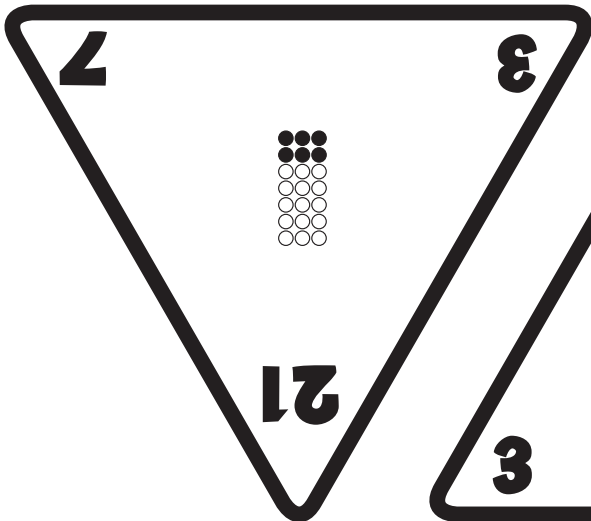
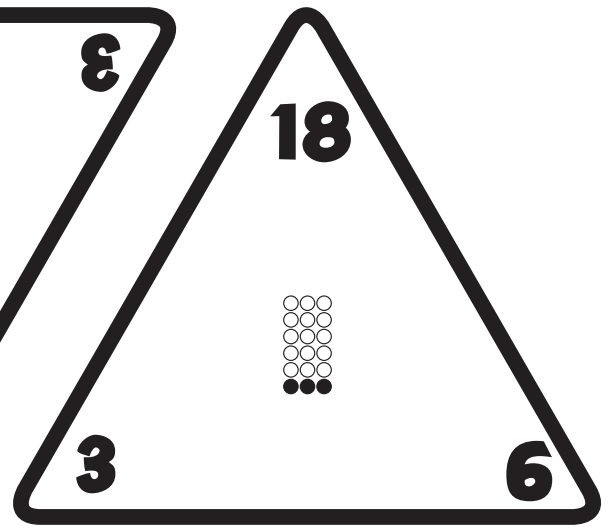
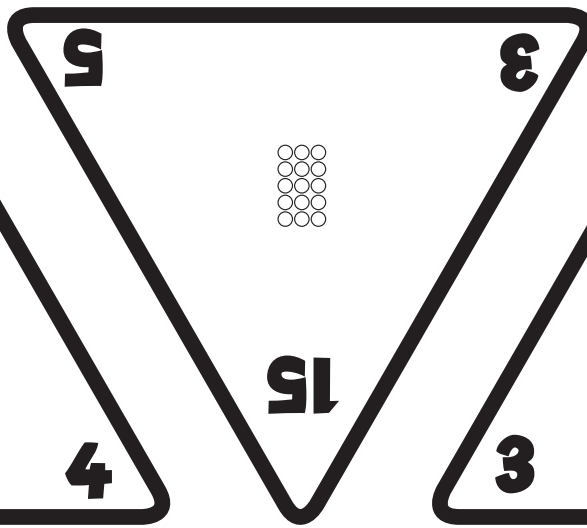
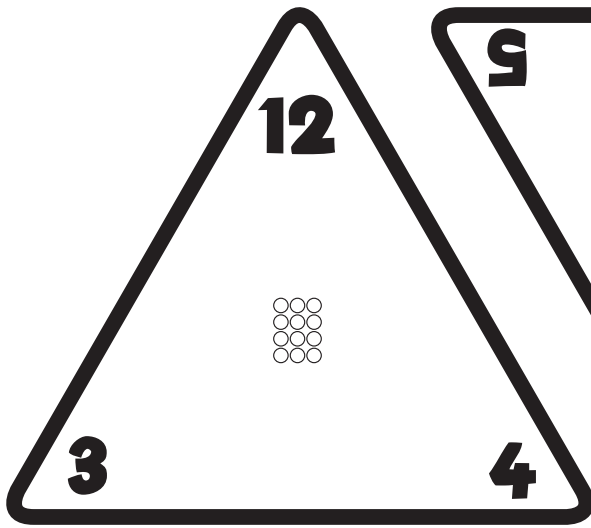
**3 x 1 is what? 3 x 1 is 3!**

3	x	1	=	3	
3	x	2	=	6	
3	x	3	=	9	
3	x	4	=	12	
3	x	5	=	15	
3	x	6	=	18	
3	x	7	=	21	
3	x	8	=	24	
3	x	9	=	27	
3	x	10	=	30	
3	x	11	=	33	
3	x	12	=	36	

# Table Trooper Puzzle Pieces

					
7	8	9	10	11	12
					
3	6	9	12	15	18
1	2	3	4	5	6
					
21	24	27	30	33	36

# Multiplication Triangles

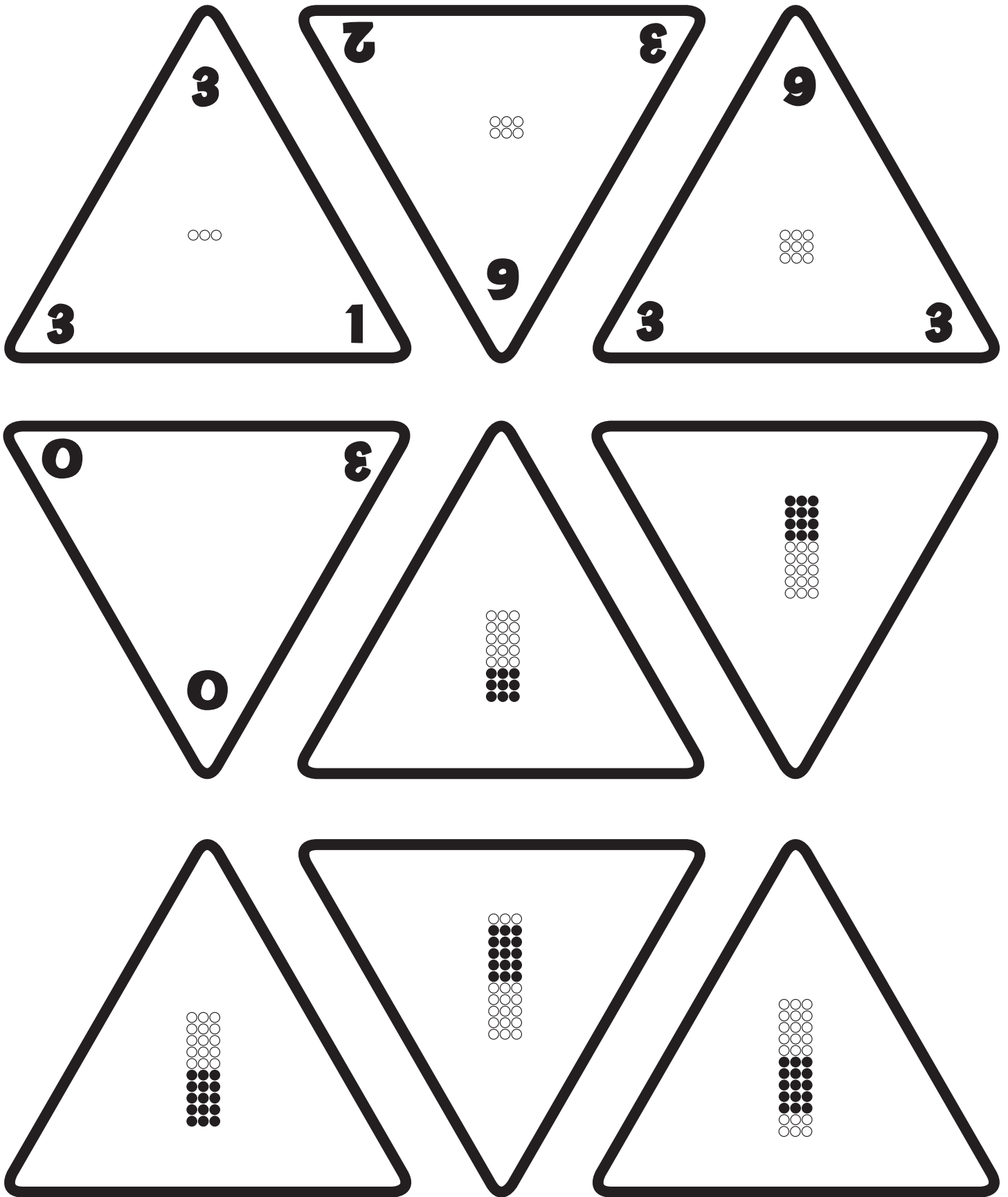


**Instructions:** Print out onto coloured card and cut out the triangles (laminates for longevity)

**Cover Up:** One person covers up one or two of the numbers and the partner has to reason what the multiplication or division fact is. This reasoning could include reference to the image.

**Describe Me:** The image is covered and a partner has to describe or draw the image to win the triangle.

# Multiplication Triangles



**Instructions:** Print out onto coloured card and cut out the triangles (laminates for longevity)

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# 3 Times Table Bookmark

3

$3 \times 1 = 3$   
 $3 \times 2 = 6$   
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 $3 \times 6 = 18$   
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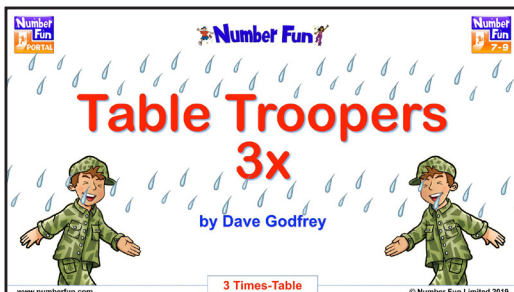
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 $3 \times 1 = 3$





# Multiplication Grid

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



# Parent Ideas Sheet

Title: **Table Troopers 3x (In the Rain)**

Concept: **3 Times Table**

Concept Video Link: \*\*\*\*\*

Song Type: **Concept** (ideal for understanding concepts)



## Song Overview

Table Troopers 3 helps children learn and recall the 3 Times-Table. In the song children practice the multiples of 3, recall the table in order and then out of order.



## Did You Know?

I wonder which of these equations you would write to show how many balloons you can see in the picture?  $5 \times 3 = 15$  or  $3 \times 5 = 15$ ? When I was a child, I was taught to read  $5 \times 3$  as 5 'lots of' 3, so I would have chosen the first equation. I would now suggest that the image of the balloons is better understood as  $3 \times 5$ . This is because I've begun to use the mathematical phrase 'multiplied by' instead of 'lots of' when reading a multiplication equation. The image is about 3 balloons and the image is multiplied 5 times. It is actually a repeated addition image of  $3 + 3 + 3 + 3 + 3 = 15$ . 3 is 'multiplied by' 5, i.e.  $3 \times 5$ . 3 is the 'multiplicand' (the number to be multiplied) and 5 is the 'multiplier' (the number by which 3 is being multiplied). Multiplying the 3 and 5 gives you the 'product' of 15. The multiplication facts in Table Troopers, and all the multiplication songs on the Number Fun Portal, follow this convention.



## Top Tips (using online Video File or Full Track mp3)

**T1: What Do You Know?** Challenge yourself and your child to respond with the Table Troopers without looking at the screen. This will give you a good indication of whether you know the multiples of 3, if you know your 3x table facts in order and out of order!

**T2: What's in the Image?** Each table fact is accompanied by its Slavonic Abacus image. Is the image helpful? What does it mean? How do the colours work? Can you draw this image from an abstract table fact, like  $3 \times 7 = 21$ ?



## Activity Ideas

**A1: Table Trooper Puzzle Game: Aim:** To win the most points during the completion of the gameboard. 2-player game.

**You will need:** One copy of the 'Table Trooper Puzzle Pieces' but cut up into 30 rectangles and the pieces popped in a bag. You need one copy of the 'Table Trooper Puzzle Gameboard' for each game and two highlighters/coloured pens.

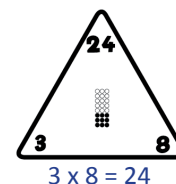
**Rules:** Players take it in turns to choose a random rectangle piece from the bag and highlight the rectangle on the gameboard using their coloured highlighter.

**Points:** On each turn, players predict the table fact the next rectangle will be from. For example, a player might say, 'I think the next rectangle will be from  $3 \times 6 = 18$ !' If the player then picks out the number 3 or 6 or the image of 18 balloons, they win 3 points! Players keep a tally of their points. At the end of the game players win; (A) 30 bonus points for each row that is just highlighted in their coloured pen (B) Bonus points for the biggest run of boxes highlighted in their colour in a column. 3 points per highlighted box in the run. E.g. 4 boxes in a row, wins 12 points.

**A2: Multiplication Triangles:** Print out and cut out the triangles.

**Cover Up:** One person covers up one or two of the numbers and the partner has to reason what the multiplication or division fact is.

**Describe Me:** One person covers up the image and their partner has to describe or draw the image to win the triangle.



**A3: 2 Times Table Bookmark:** An idea for helping children learn their tables. It lives in your child's reading book!



## Recommended Songs

**The Hat-Trick Song** Follow the goal scoring exploits of our star-striker!

**Times Table Rock (x3, x4, x8 & x11)** This song is for quick recall of some of the easier multiplication tables to learn.

**Number Fun Monster** Each Number Fun monster has 3 feet. How many feet will you see if 5 monsters knocked on your door?