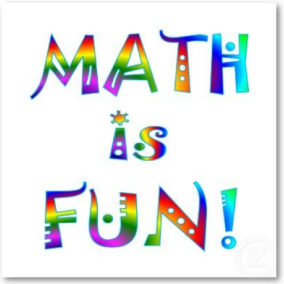
MATHS WEEK ENGLAND 2020

9TH - 14TH NOVEMBER

#JOINTHEADVENTURE

Maths: 13.11.20

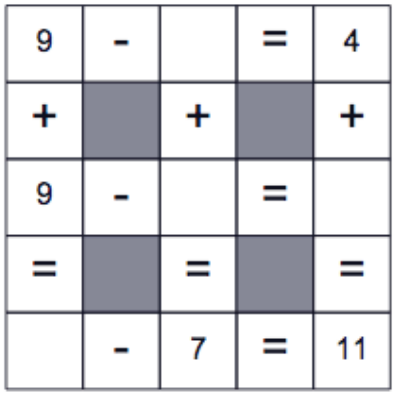
As is it Maths Week this week and you have all been working so hard this week, I have selected some Maths games/ puzzles/ artwork for you to try. You do not have to complete all of the activities. Have a look through the PowerPoint and choose the ones you would like to do ☺



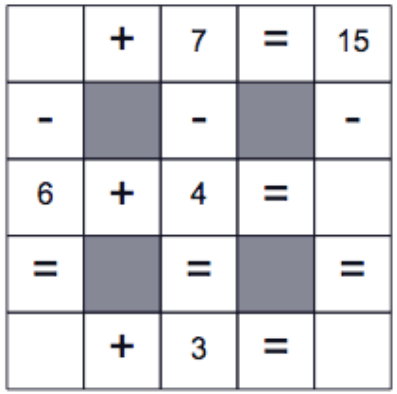
Enjoy!

Love Miss Robertson x

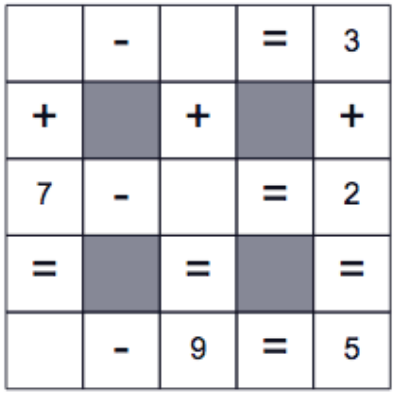
Addition games/ puzzles:



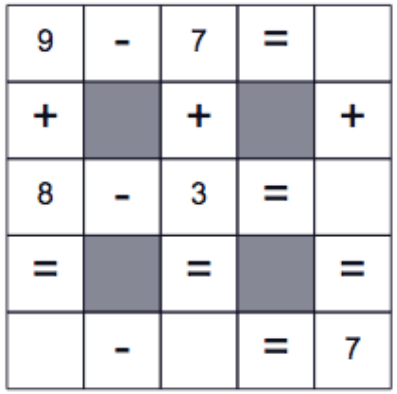
9	-		=	4
+		+		+
9	-		=	
=		=		=
	-	7	=	11



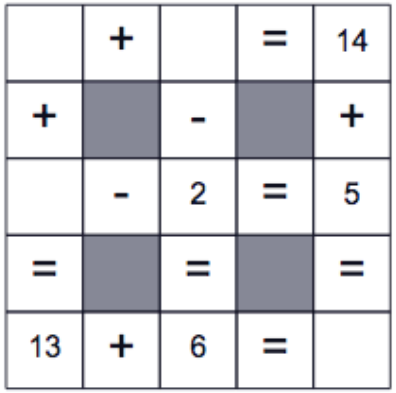
	+	7	=	15
-		-		-
6	+	4	=	
=		=		=
	+	3	=	



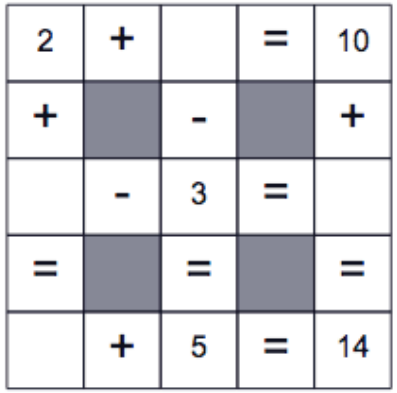
	-		=	3
+		+		+
7	-		=	2
=		=		=
	-	9	=	5



9	-	7	=	
+		+		+
8	-	3	=	
=		=		=
	-		=	7



	+		=	14
+		-		+
	-	2	=	5
=		=		=
13	+	6	=	

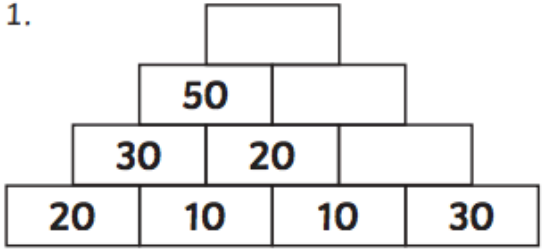


2	+		=	10
+		-		+
	-	3	=	
=		=		=
	+	5	=	14

Addition Pyramids

Use addition and subtraction calculations to complete these number pyramids.

1.



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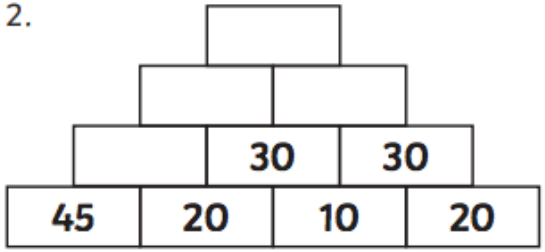

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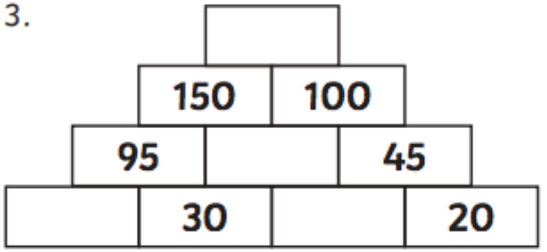

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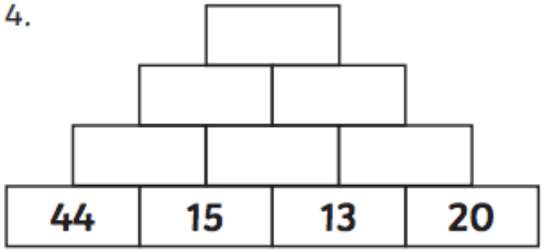

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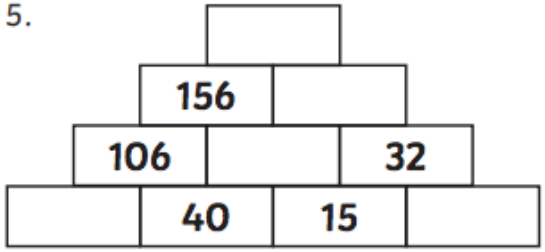

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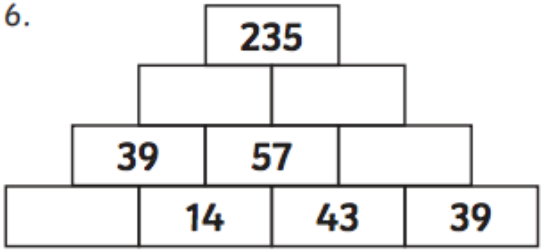

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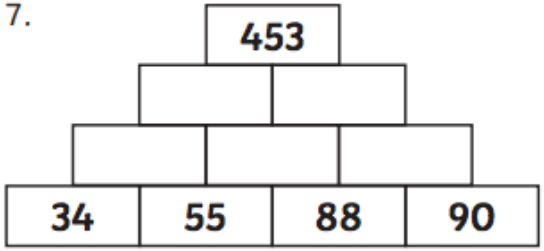

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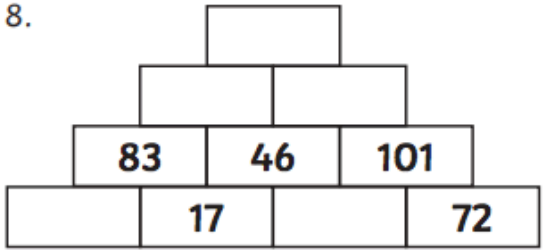

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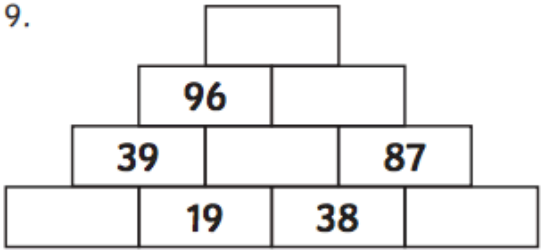


Emoji Code Breaker Addition

Crack the code by working out the addition calculations. Once you have an answer, look for the matching letter in the table and fill in the blank.

a	b	c	d	e	f	g	h	i	j	k	l	m
22	44	35	64	21	31	88	50	81	7	26	18	34

n	o	p	q	r	s	t	u	v	w	x	y	z
75	20	15	30	10	6	13	45	99	71	53	11	62

Can you crack the code to reveal the message?

____ ____ ____ ____ ____ ____ ____ ____

10 + 3 40 + 5 6 + 4 73 + 2 7 + 4 15 + 5 41 + 4 8 + 2

____ ____ ____ ____ ____

30 + 1 9 + 1 12 + 8 70 + 1 71 + 4

____ ____ ____ ____ ____ ____

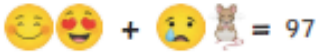
40 + 5 12 + 3 2 + 4 79 + 2 60 + 4 9 + 12

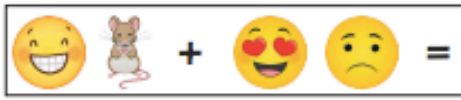
____ ____ ____ ____

60 + 4 16 + 4 68 + 3 70 + 5

Emoji Code Breaking

5	2	7	3	4	9	6	8	0	1



1. 
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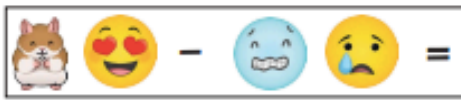
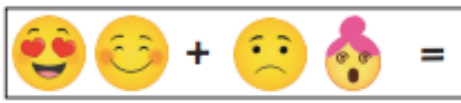
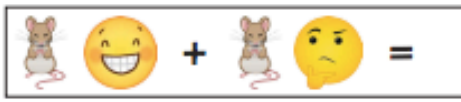
3. 
4. 
5. 
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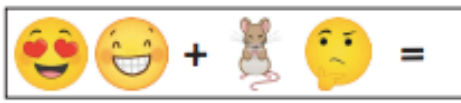
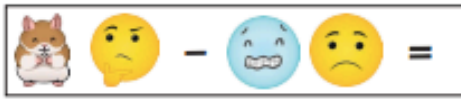
7. 
8. 
9. 
10. 

Why not design your own emoji maths puzzle for someone in your family to complete?

Number Puzzles

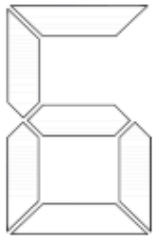
Amazing Fact

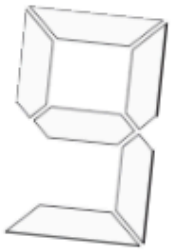
If you take any number, double it, add 10, divide by 2 and subtract your original number, the answer will always be 5.

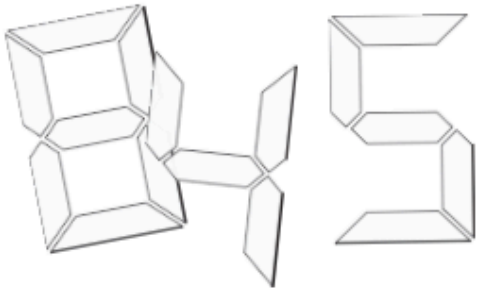
Challenge

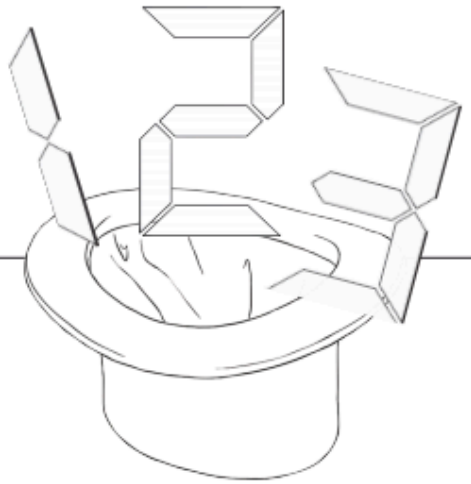
See if this is true.

1. Double 5 = ☐ + 10 = ☐ ÷ 2 = ☐ - 5 = ☐
2. Double 7 = ☐ + 10 = ☐ ÷ 2 = ☐ - 7 = ☐
3. Double 3 = ☐ + 10 = ☐ ÷ 2 = ☐ - 3 = ☐
4. Double 9 = ☐ + 10 = ☐ ÷ 2 = ☐ - 9 = ☐
5. Double 4 = ☐ + 10 = ☐ ÷ 2 = ☐ - 4 = ☐
6. Double 2 = ☐ + 10 = ☐ ÷ 2 = ☐ - 2 = ☐









You could also try to find out:

- why this works;
- about other tricks that can be performed with numbers;
- a number trick to confuse your friends.

Test this trick on someone in your family ☺

Times table games/ activities:

Don't worry if you don't have a printer, just draw the grid onto paper ☺

Multiplication Dice Game

How to play:

1. Roll the die.
2. Multiply the number by two or three.
3. Colour your answer on the grid.
4. The first person to colour three in a row wins!

2	18	6	3
4	10	12	4
8	6	2	8
12	9	15	3

Don't worry if you don't have a printer, just draw the grid onto paper ☺

Multiplication Dice Game

How to play:

1. Roll the dice.
2. Multiply your two numbers.
3. Colour your answer on the grid.
4. The first person to colour four in a row wins!

18	12	24	8	10	24	6	15
36	30	12	9	2	5	4	18
4	24	4	8	6	8	15	3
10	12	25	15	20	6	16	8
36	12	12	30	5	12	5	30
10	25	1	9	5	6	10	20
18	20	9	10	16	15	4	3
1	30	4	20	2	3	6	15

Don't worry if you don't have a printer, just draw the grid onto paper ☺

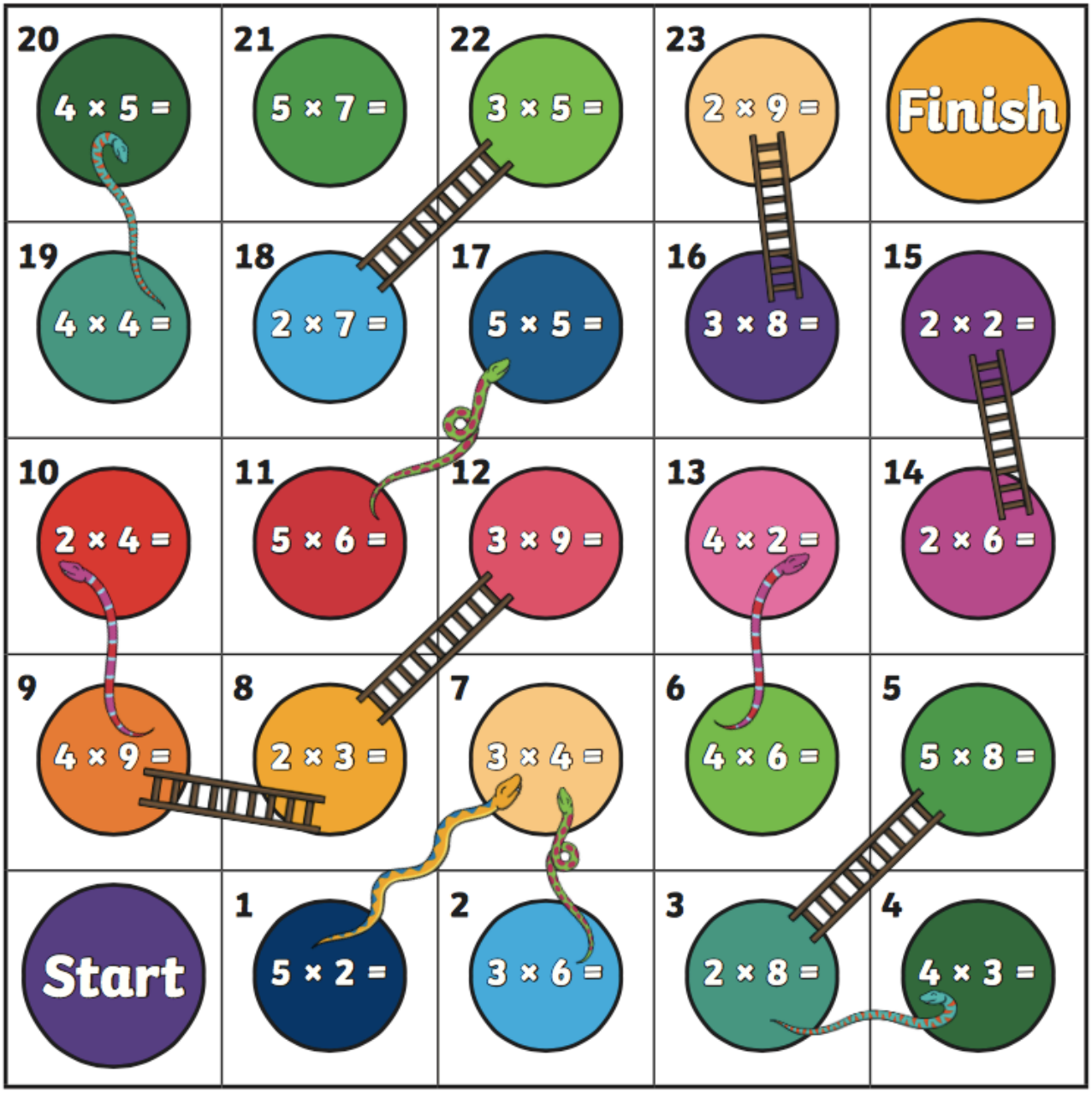
Snakes and Ladders
2, 3, 4 and 5 Times Tables

You will need:

- the Snakes and Ladders Board Game;
- a dice;
- a counter per player.

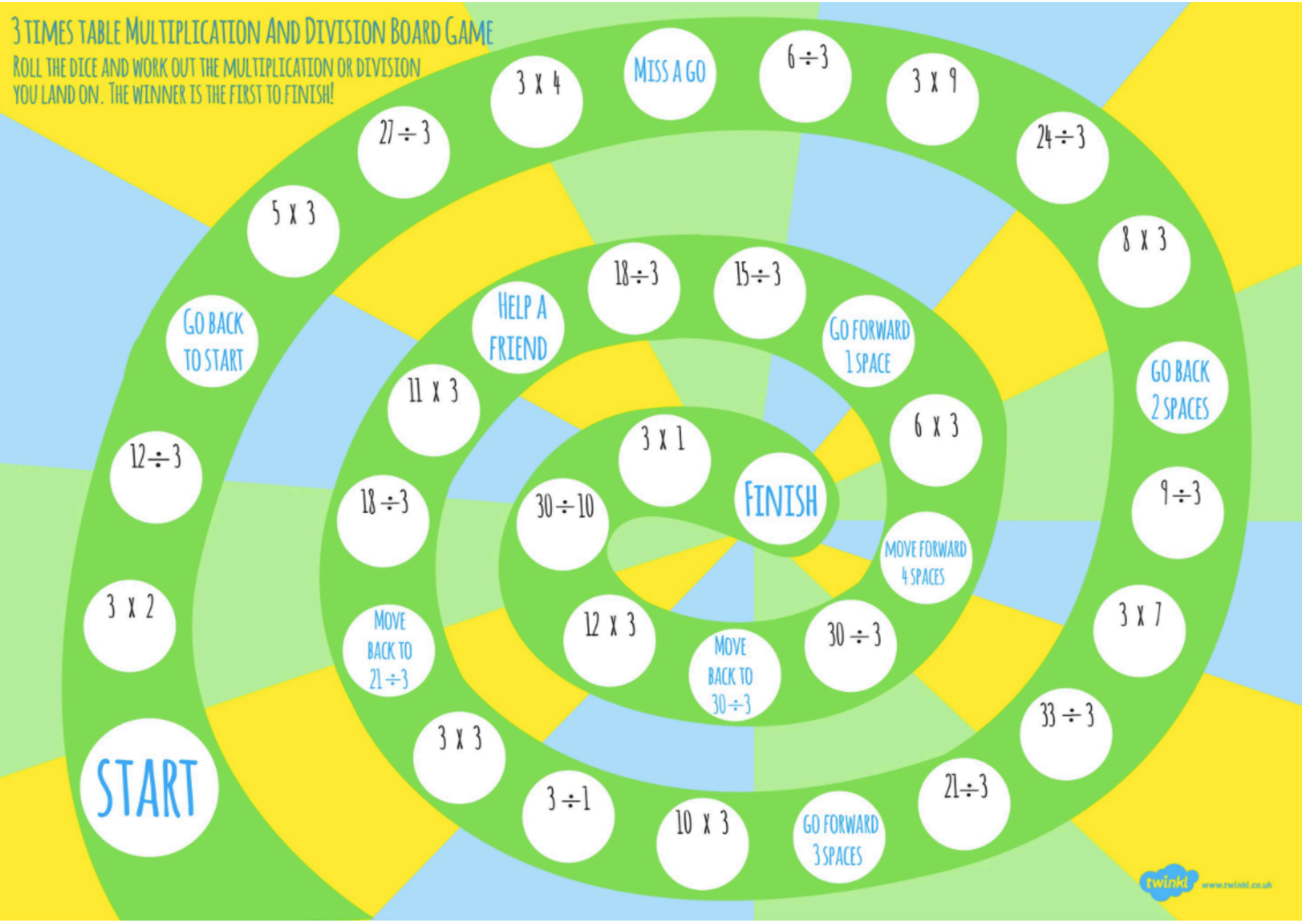
How to play:

1. Players take it in turns to roll the dice. The player with the highest number goes first, the player with the second highest goes second and so on.
2. When it's their turn, players move the counter the number of spaces shown on the dice and answer the calculation they land on.
3. If the answer given to the calculation is correct, play continues as usual:
   - landing on a snake's head - the player's counter slides down;
   - landing at the bottom of a ladder - the player's counter climbs up.
4. If the answer given to the calculation is incorrect, the player misses a go.
5. The first player to reach the finish is the winner!



3 times table Multiplication And Division Board Game

Roll the dice and work out the multiplication or division you land on. The winner is the first to finish!



2× Table Multiplication and Division

Roll the dice and work out the multiplication or division you land on. The winner is the first to finish!

Start					16 ÷ 2	2 ÷ 1	Move forward 1 space		11 × 2
5 × 2					Help a friend				Move forward 4 spaces
10 ÷ 2	Go back to start	7 × 2	50 ÷ 2		8 × 2				18 ÷ 2
			4 × 2		40 ÷ 2	Move back to 10 ÷ 2			Move back to 16 ÷ 2
20 ÷ 2	10 × 2	30 ÷ 2	Miss a go			7 × 2			12 × 2
2 × 8						50 ÷ 2			15 × 2
Go back 2 spaces	60 ÷ 2	9 × 2	46 ÷ 2	10 ÷ 2	Move forward 3 spaces	6 × 2			Finish

Emoji Multiplication Mosaic

Colour in the answers using the correct colours ☺

Multiplication ×2, ×5, ×10

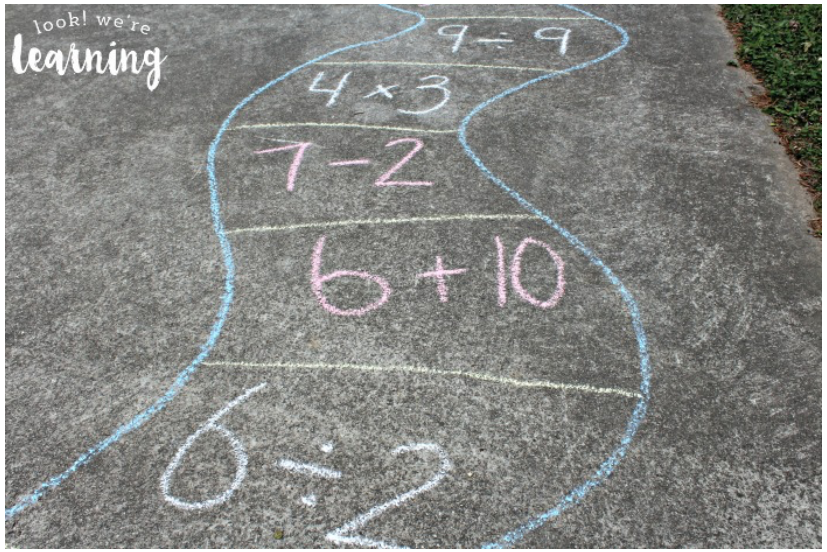
Solve the maths problems to reveal the hidden picture. Each answer has a special colour:

blue = 16, 2, 14, 8, 12, 18

yellow = 70, 4, 60, 80, 55, 45, 110, 90, 20, 50, 24, 40, 30, 120, 110, 10

black = 26, 6, 15, 22, 5, 35, 100, 25

2 × 9	2 × 6	2 × 2	9 × 10	10 × 2	5 × 8	12 × 5	4 × 2	7 × 2
1 × 2	7 x 10	8 × 10	10 × 5	2 × 2	2 × 5	10 × 7	12 × 2	6 × 2
3 × 2	5 × 7	2 x 3	10 × 10	5 × 3	1 × 5	3 × 2	10 × 10	2 × 11
10 × 9	1 × 5	2 × 11	7 × 5	11 × 5	5 × 5	11 × 2	5 × 1	9 × 5
2 × 12	3 × 10	1 × 5	10 × 10	10 × 12	5 × 7	2 × 3	4 × 10	5 × 12
6 × 10	10 × 2	10 × 9	3 × 10	8 × 5	2 × 2	10 × 8	10 × 12	1 × 10
5 × 2	5 × 7	11 × 5	2 × 10	12 × 10	6 × 5	10 × 3	3 × 5	10 × 6
10 × 4	10 × 6	11 × 2	10 × 1	7 × 10	10 × 2	11 × 2	5 × 2	10 × 1
2 × 7	8 × 10	5 × 11	10 × 10	5 × 5	5 × 7	4 × 10	10 × 5	2 × 8
8 × 2	4 × 2	11 × 10	4 × 5	12 × 10	9 × 10	10 × 3	9 × 2	2 × 1



Make your own multiplication hopscotch in your garden using chalk or do it in your house using paper.
You could also do an addition/ subtraction one ☺

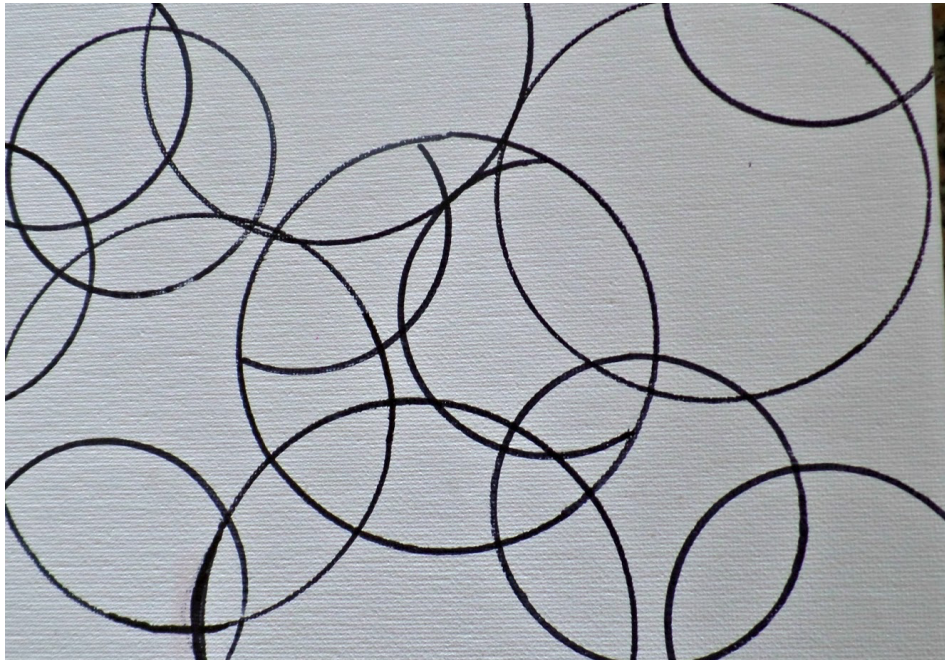
Maths art ideas:

Circle art:

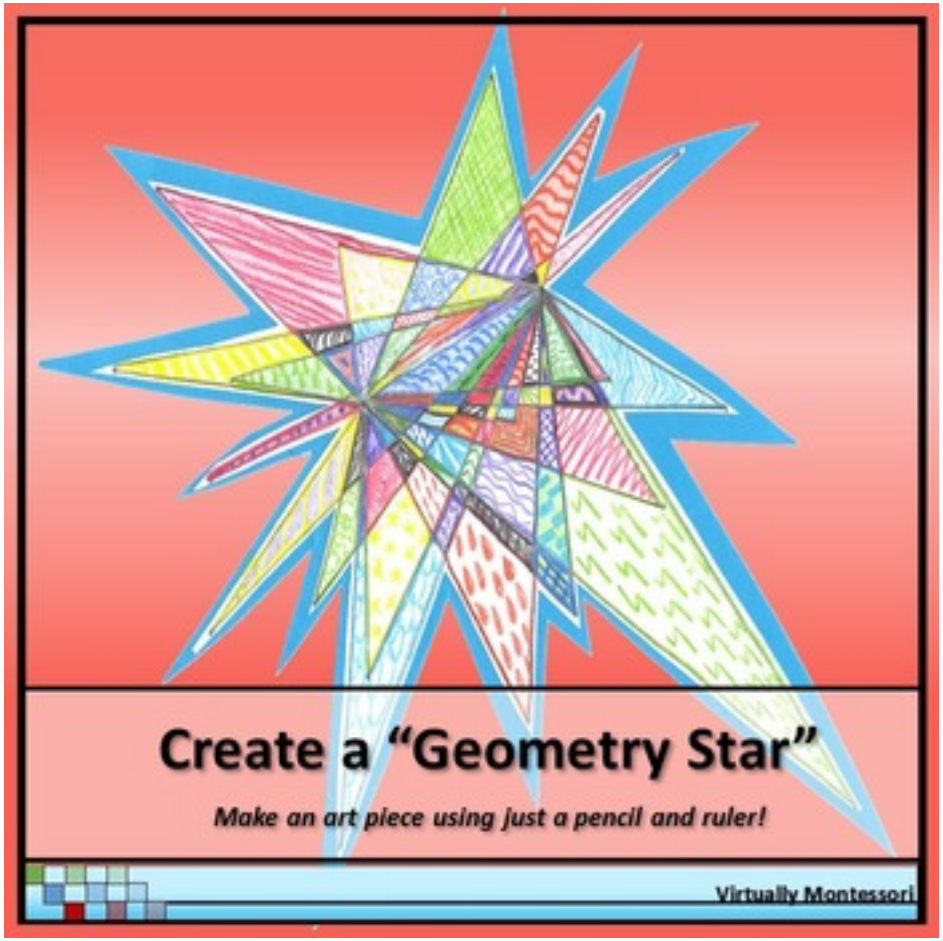
1. Find something circular in your house (glue stick, cup, sellotape).

2. Draw around it lots of times (so that the circles overlap).

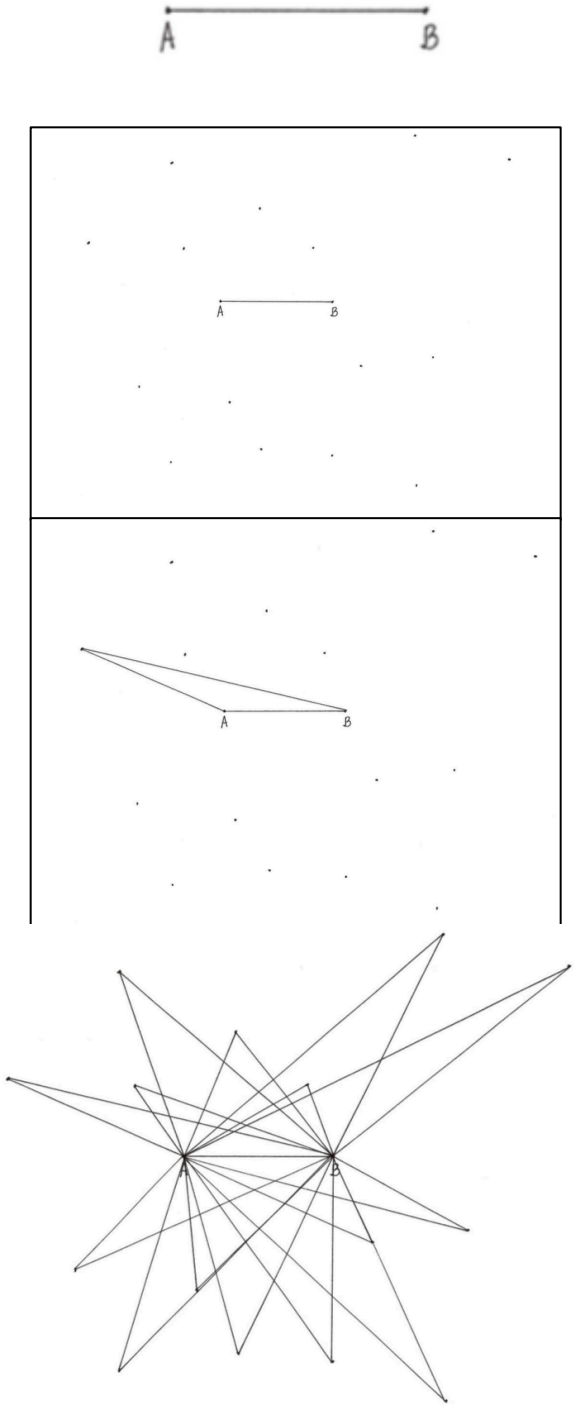
3. Colour in the circles. Use different colours for different sections.



Maths art ideas:



This one looks more complicated than it is.
Use the instructions on the next page to help you ☺

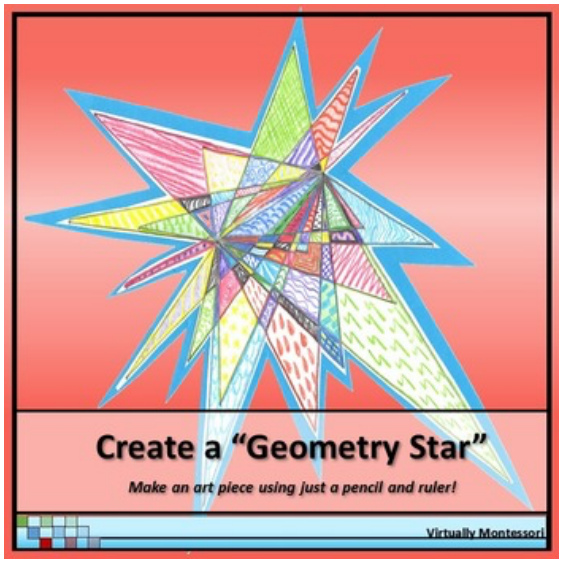


1. Draw a line on a piece of paper and label one end A and the other end B.

2. Draw 15- 20 dots all around the page.

3. Using a ruler, draw lines from each point made to point A and B.

4. Colour in each section of your star using different colours/ patterns.



Maths line art:

1. Use a ruler to draw lots of lines onto your paper in different directions.

2. Colour in each shape in a different colour pattern.

3. What shapes can you spot inside your picture?

I hope you enjoyed some of these activities.

Thank you for working so hard on your Maths this week.

Please send in any photos of anything that you've done to yearthree@st-jo-st.dudley.sch.uk

I would love to see it ☺

Love Miss Robertson x