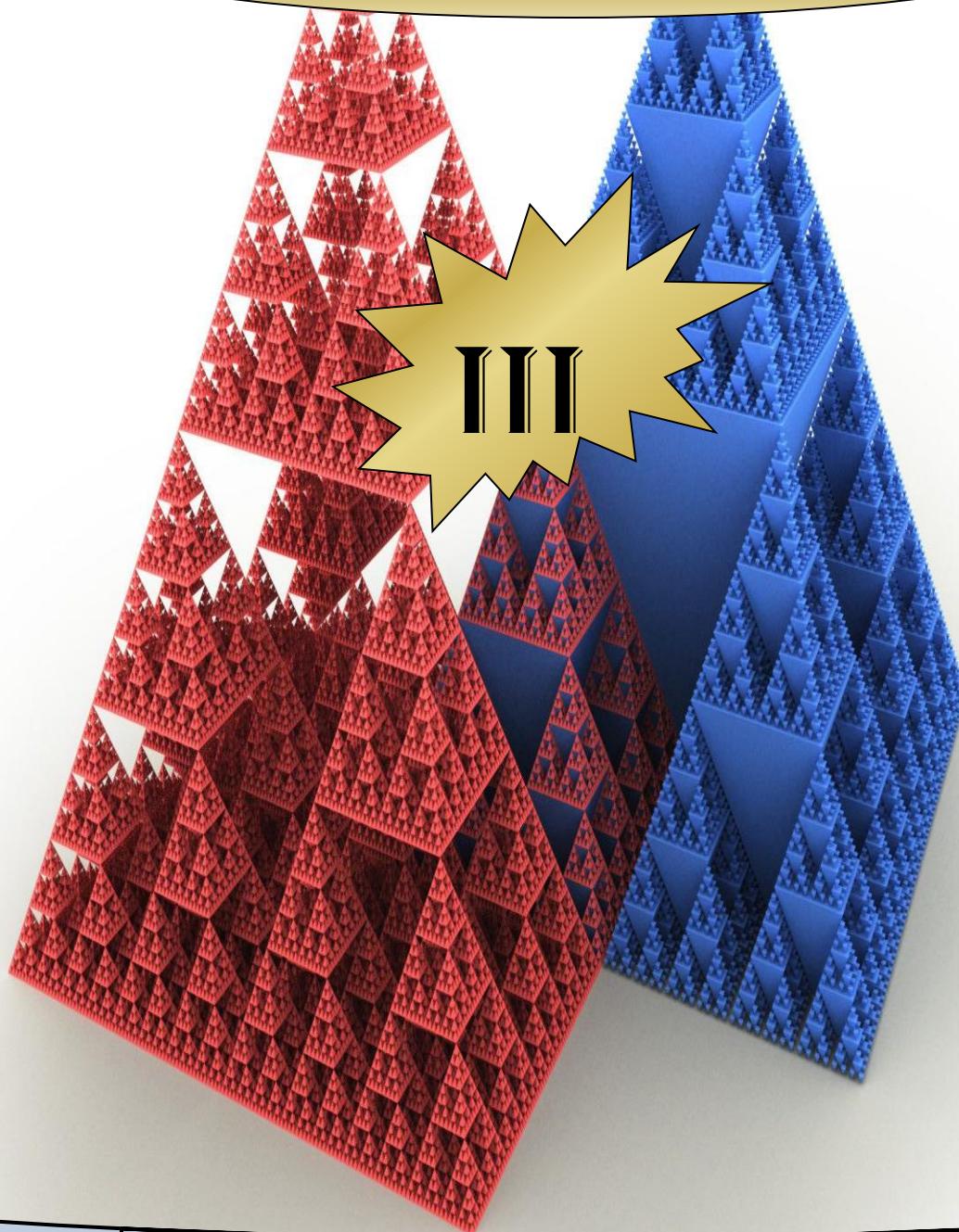




INDIAN SCHOOL SOHAR

FUN WITH MATHS

(HOLIDAY HOME WORK)



BY
DEPARTMENT OF MATHEMATICS

FIND THE VALUES OF EACH OBJECTS OF THE FOLLOWING
FIGURE

$$\square + \bigcirc = 10 \quad \bigcirc =$$

$$\triangle + \triangle = 6 \quad \triangle =$$

$$\triangle + \bigcirc = 5 \quad \square =$$

FIND THE TOTAL VALUE OF EACH FRUIT OF THE
FOLLOWING FIGURE

$$\text{Apple} = 7$$

$$\text{Grapes} = 5 + \text{Apple}$$

$$\text{Apple} = 1 + \text{Banana}$$

$$\text{Apple} + \text{Grapes} + \text{Banana} = ?$$

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FIND THE VALUES OF EACH OBJECTS OF THE FOLLOWING
FIGURE

$$\bigcirc + \triangle = 8$$

$$\bigcirc - \triangle = 4$$

$$\star + \square = 12$$

$$\star - \square = \square$$

$$\square + \square = \star$$

$$\star =$$

$$\bigcirc =$$

$$\square =$$

$$\triangle =$$

FIND THE VALUES OF EACH OBJECTS OF THE FOLLOWING
FIGURE

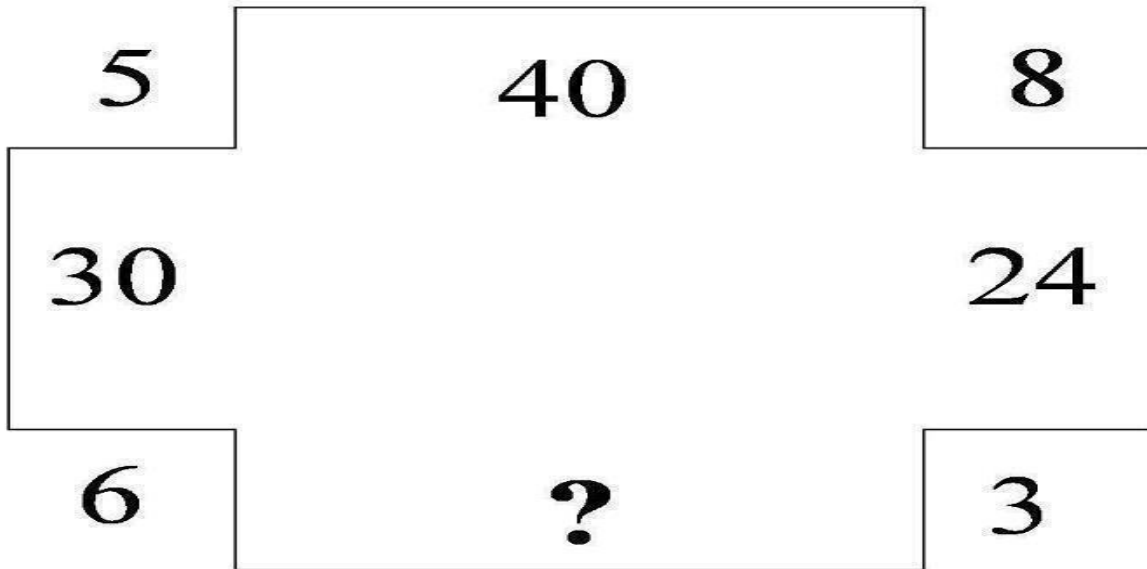
$$\text{Cylinder} + \text{Cylinder} + \text{Cylinder} = 24$$

$$\text{Cylinder} + \text{Cross} = 25$$

$$\text{Cross} - \text{Trapezoid} = 8$$

$$\text{Cross} + \text{Cylinder} + \text{Trapezoid} = \square ?$$

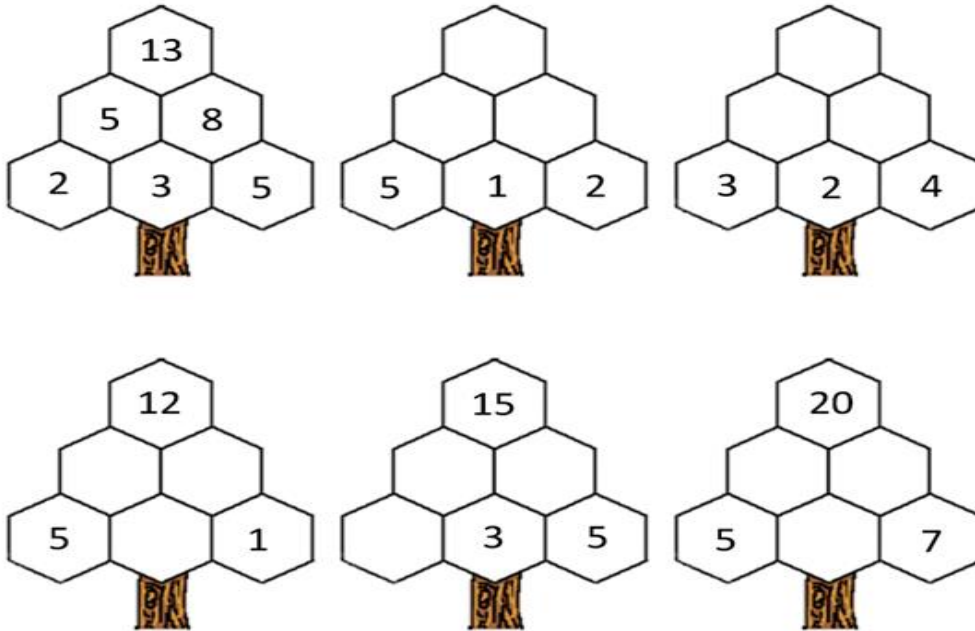
FIND THE MISSING NUMBER IN THE FOLLOWING
ARRANGEMENTS



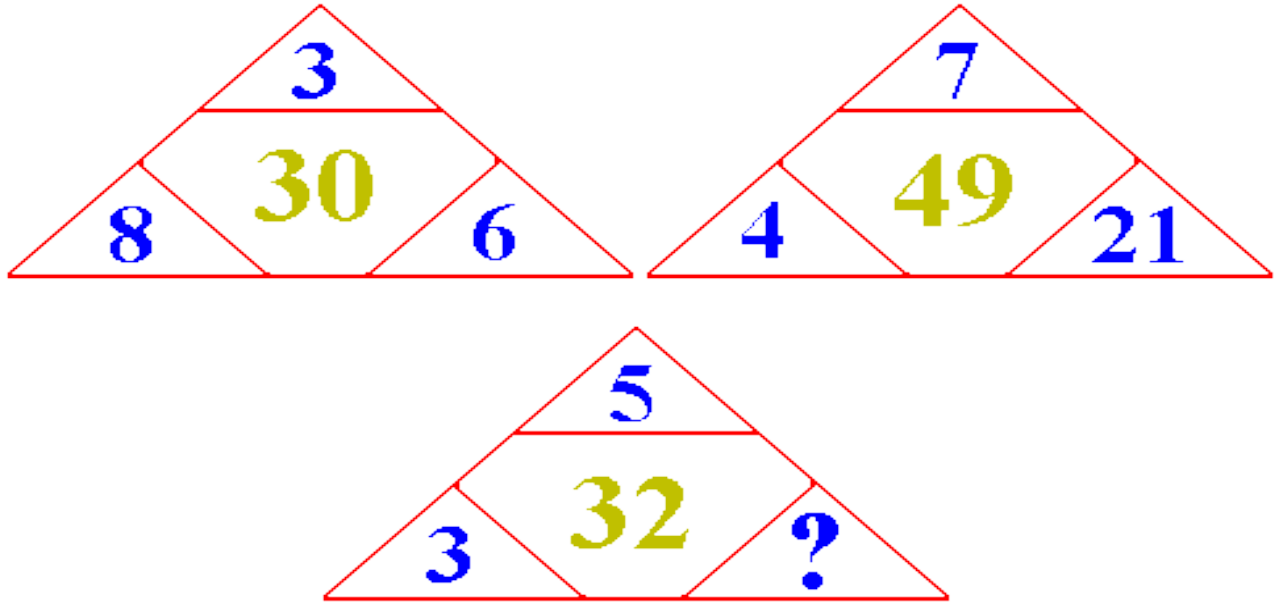
FIND THE MISSING NUMBER IN THE FOLLOWING
ARRANGEMENTS

8	10	7	9
28	19	22	13
25	34	31	40
35	43	46	?

COMPLETE THE TREE WITH SUITABLE NUMBERS



COMPLETE THE TRIANGLE WITH SUITABLE NUMBER

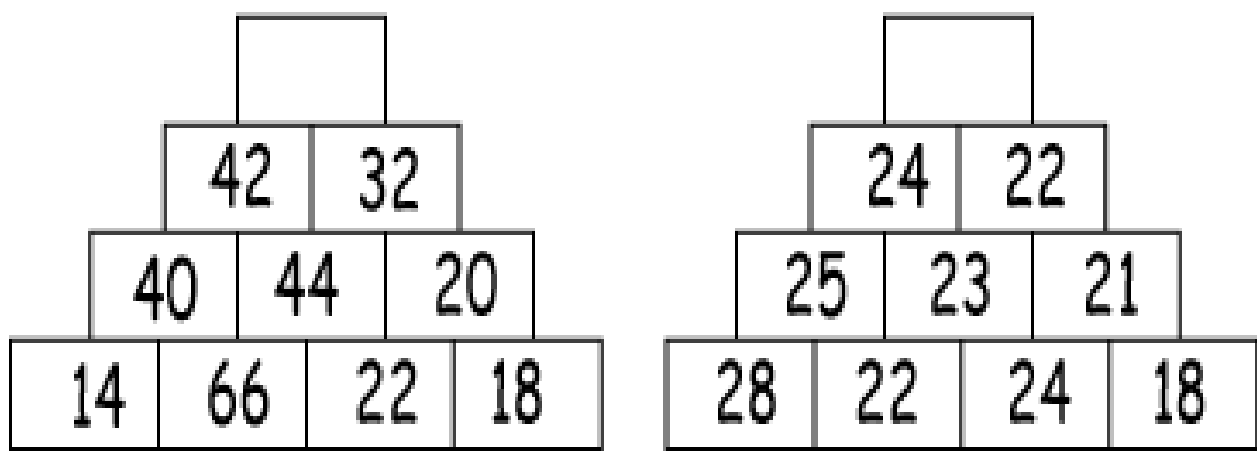


USE MENTAL MATHS TO FILL UP THE EMPTY BOXES

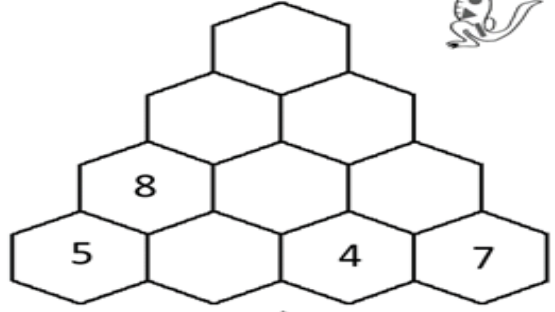
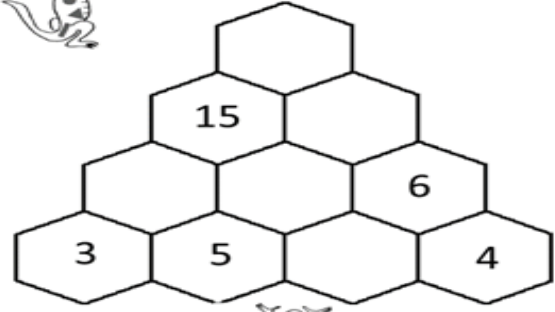
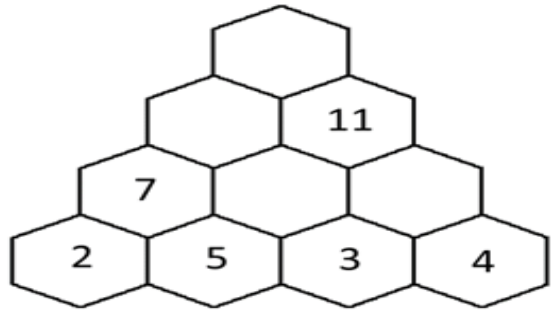
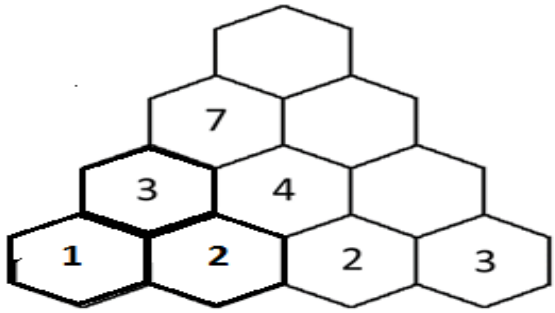
8	+	5	+	10	=	
+		+		+		+
9	+	7	+	10	=	
+		+		+		+
10	+	10	+	9	=	
=		=		=		=
	+		+		=	

6	+		+	3	=	
+		+		+		+
3	+		+		=	10
+		+		+		+
	+	5	+	8	=	
=		=		=		=
	+	13	+	15	=	50

COMPLETE THE FOLLOWING NUMBER PYRAMID



COMPLETE THE EMPTY HEXAGONS WITH SUITABLE NUMBERS



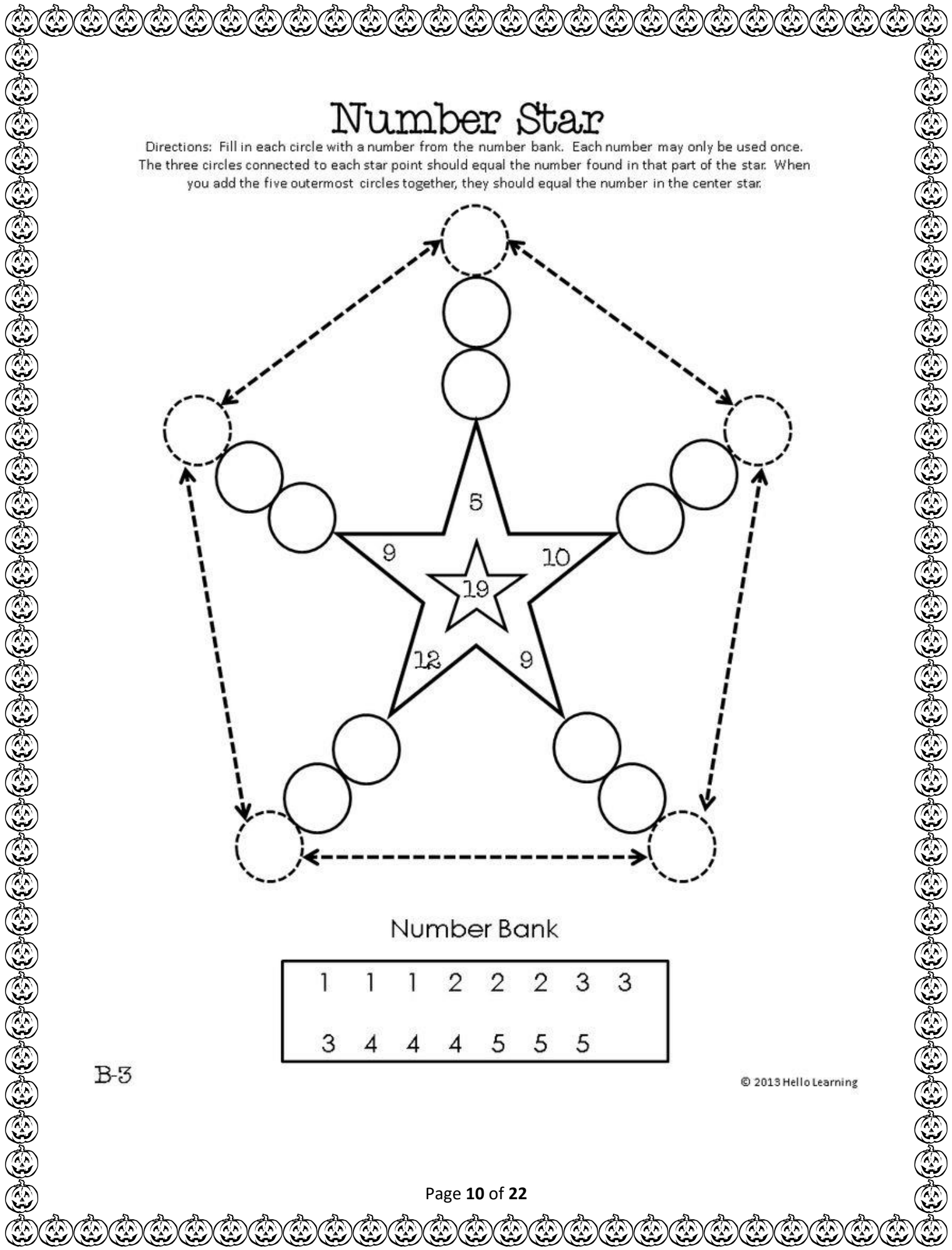
CHOOSE THE RIGHT PATH TO REACH THE FINISH

START

	3			
$+ 24 = 7$	$\times 6 = 2$	$+ 3 = 6$	$\times 3 = 18$	$-$
40 <input type="text"/>	9 <input type="text"/>	4 <input type="text"/>	2 <input type="text"/>	7
$=$	$=$	$=$	$=$	$=$
6 <input type="text"/>	54 <input type="text"/>	10 <input type="text"/>	13 <input type="text"/>	11
$- 55 = 2$	$+ 9 = 3$	$- 14 = 3$	$\div 12 = 6$	$+$
32 <input type="text"/>	12 <input type="text"/>	55 <input type="text"/>	42 <input type="text"/>	1
$=$	$=$	$=$	$=$	$=$
17 <input type="text"/>	66 <input type="text"/>	3 <input type="text"/>	6 <input type="text"/>	12
$+ 6 = 11$	$\div 24 = 5$	$\div 7 = 36$	$- 48 = 4$	\times
6 <input type="text"/>	3 <input type="text"/>	120 <input type="text"/>	52 <input type="text"/>	7
$=$	$=$	$=$	$=$	$=$
12 <input type="text"/>	8 <input type="text"/>	5 <input type="text"/>	12 <input type="text"/>	28
$\times 2 = 24$	$- 15 = 9$	$+ 115 = 3$	$+ 112 = 4$	\times
3 <input type="text"/>	5 <input type="text"/>	3 <input type="text"/>	40 <input type="text"/>	5
$=$	$=$	$=$	$=$	$=$
30 <input type="text"/>	3 <input type="text"/>	12 <input type="text"/>	8 <input type="text"/>	92
$- 14 = 6$	$\times 2 = 6$	$- 7 = 5$	$\times 6 = 34$	\div

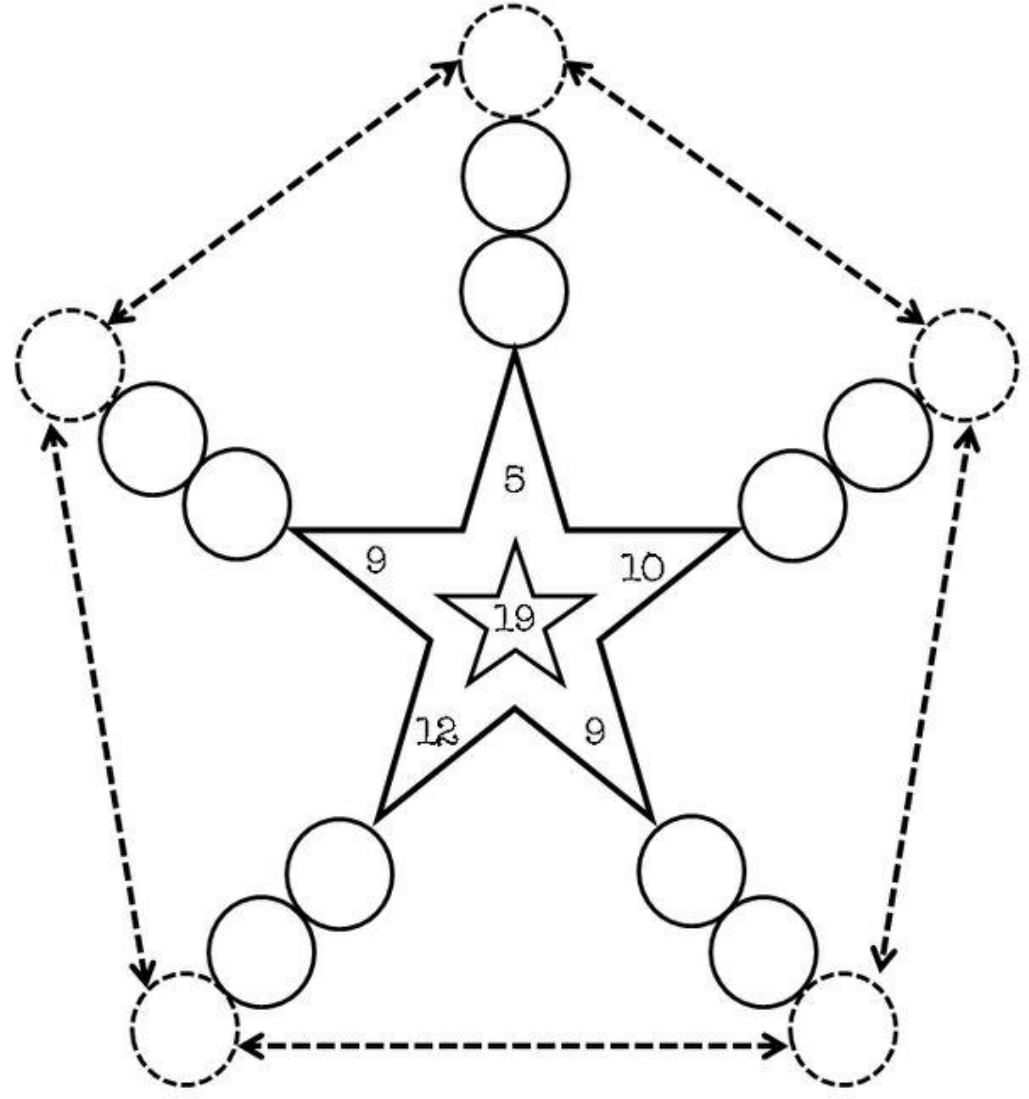
6
=
0

FINISH



Number Star

Directions: Fill in each circle with a number from the number bank. Each number may only be used once. The three circles connected to each star point should equal the number found in that part of the star. When you add the five outermost circles together, they should equal the number in the center star.



Number Bank

1	1	1	2	2	2	3	3
3	4	4	4	5	5	5	

B-3

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HANDLE THE OPERATIONS PROPERLY

In each box, choose a sign: +, -, x, or ÷ to make the calculation correct.

$$(12 \div 3) \times (5 - 2) = 12$$

$$(7 \bigcirc 4) \bigcirc 5 \bigcirc 6 = 9$$

$$(3 \bigcirc 6) \bigcirc 2 \bigcirc 4 = 5$$

$$2 = (21 \bigcirc 5) \bigcirc (2 \bigcirc 4)$$

$$27 \bigcirc 3 = (11 \bigcirc 7) \bigcirc 2$$

$$8 \bigcirc 4 \bigcirc 12 = 10 \bigcirc 2$$

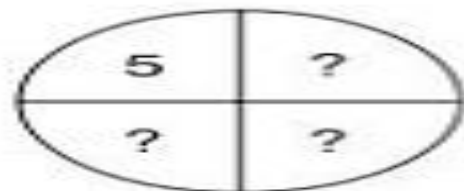
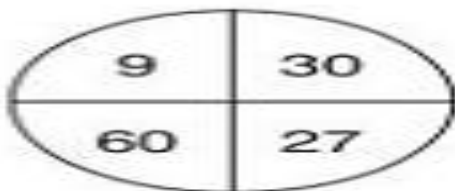
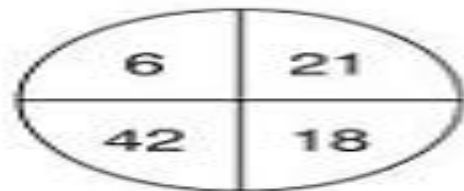
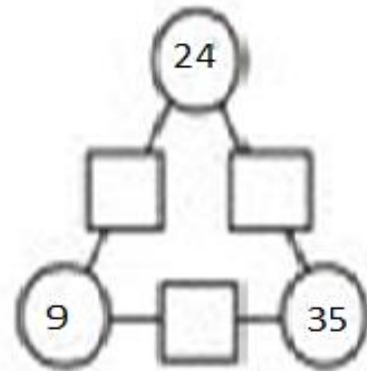
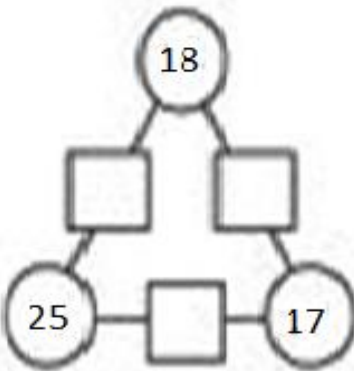
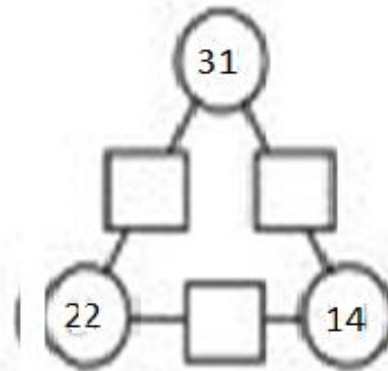
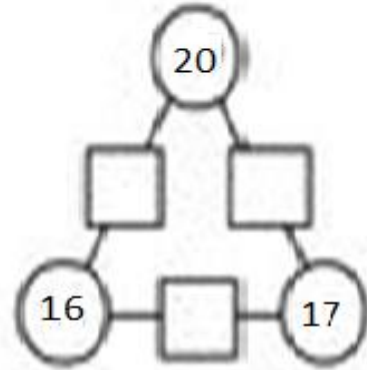
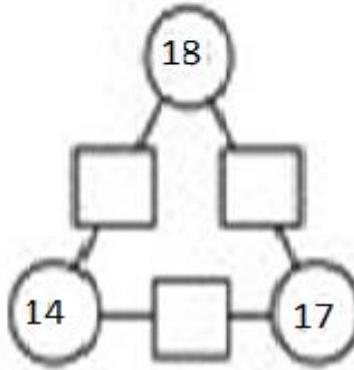
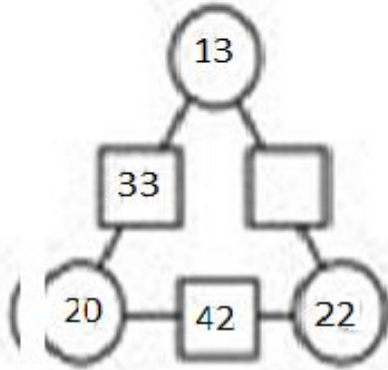
$$(12 \bigcirc 3) \bigcirc (7 \bigcirc 2) = 3$$

$$37 = (15 \bigcirc 5) \bigcirc 3 \bigcirc 7$$

$$18 \bigcirc 2 = 7 \bigcirc 2 \bigcirc 5$$

$$5 \bigcirc 9 \bigcirc 6 \bigcirc 7 \bigcirc 3$$

FOLLOW THE PATTERN AND COMPLETE THE BOXES

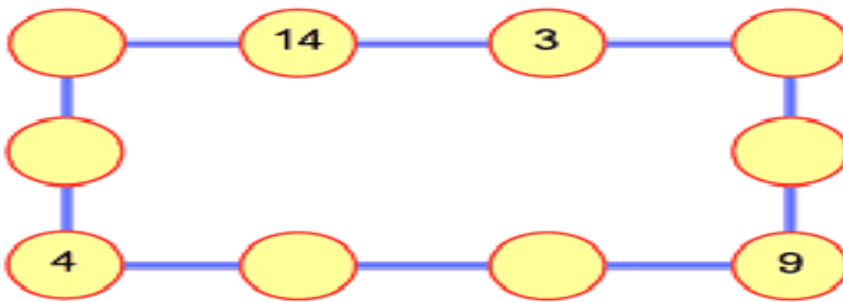


Triangular terror!



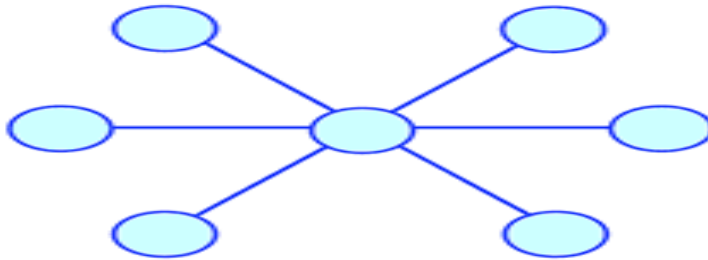
Now all you have to do is work out what number should go in the fourth triangle.

Using any whole numbers as many times as you like make each line of the rectangle add up to 20.



Puzzle time

Seven up!



Put the numbers
1, 2, 3, 4, 5, 6 and 7
in the circles so that each
straight line of three numbers
adds up to the same total.

A decorative border of pumpkins surrounds the page. At the top, a horizontal row of pumpkins spans the width. On the left and right sides, vertical columns of pumpkins run from top to bottom. At the bottom, another horizontal row of pumpkins spans the width.

MYSTERY NUMBER - WHO AM I?

- ❖ I am a 4-digit number

All my digits are same

The sum of all four digits is 28

I am the number _____

- ❖ It is a 3-digit number

The digit at ones place is 3 less than 9

The digit at tens place is 2 more than 4

The digit at hundreds place is 4 less than 8

I m the number _____

- ❖ I am a 4-digit number

The digit at tens place is 3

The digit at ones place is double of the digit at tens place

The digit at hundreds place is 2 less than 8

The digit at thousands place is the sum of the digits at ones and tens place

I am the number _____

Select the correct answer from a choice of 6 possibilities.

1) I am a two digit number.

I am larger than 30.

I am smaller than 60.

I am even.

Who am I?

26	43	85
19	28	44

2) I am less than 8 tens.

I am more than 5 tens.

I am odd.

If you add my two digits together, you get 10.

Who am I?

25	79	82
73	58	37

I am a two digit number.

My value is less than twenty.

I am exactly half-way between 10 and 20.

Who am I?

14	11	25
15	8	12

I am a single digit.

When you write me I have no start and no end.

I am an even number.

I am like a pair of glasses on their side.

Who am I?

5	9	8
3	12	7

Select the correct answer from a choice of 8 possibilities.

5) I am a 3 digit number.

My hundreds digit is odd but I am an even number.

I am more than 6 hundreds.

My tens digit is one less than my hundreds digit.

Who am I?

387	765	572	986
874	628	729	1320

6) I am less 5 hundreds.

My hundreds digit is even.

My tens digit is in the 3 times table.

I am odd.

Who am I?

425	719	382	873
463	258	337	236

- 7) I am a 3 digit number.
I am greater than 350.
My hundreds digit is even.
I am not a multiple of 5.
Who am I?

782	495	328	294
684	583	835	962

- 8) I am not a multiple of 10.
My tens digit is a multiple of 3.
If you round me to the nearest 100, I become 500.
Who am I?

427	476	562	460
528	592	530	535

Star patterns!

Each row follows the same rule. Fill in the blanks.

6	8	11	13	16	18
	20	23	25		30
34	36		41	44	
76		81		86	
38					
					46

Magic squares!

Fill in the numbers 1 to 9, so that every row, column and diagonal adds up to 15. You can use each number only once!

A

8		

B

	3	

Odd one out!

Which number is the odd one out in each row?

2 4 6 11 8

10 15 18 20 25

15 13 19 16 17

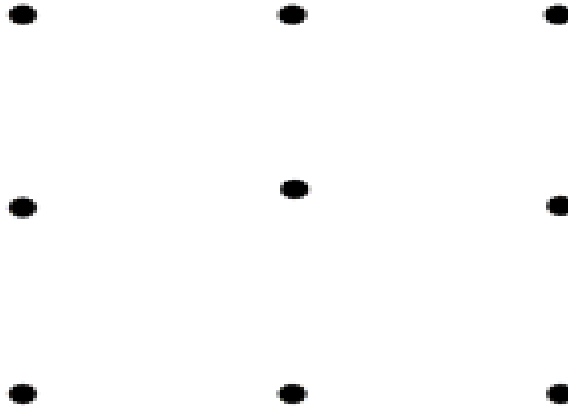
Find the pattern!

Find the pattern and apply it to each row?

10	15	20	
40			55
	20		
	35		

JOIN ALL NINE DOOTS WITH FOUR STRAIGHT LINES ,WITHOUT
YOUR PENCIL OFF FROM THE PAPER AND WITHOUT OVER
WRITING ON THE SAME LINE

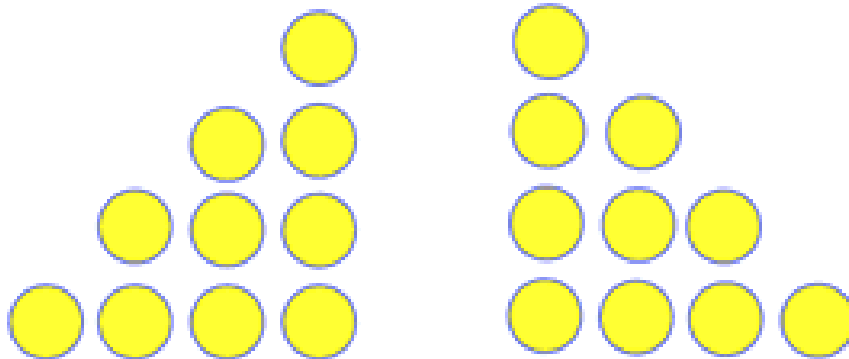
Now this really does need some imaginative thinking -
but it is possible!!



CHANGE THE LEFT PATTERN IN TORIGHT PATTERN
ONLY THREE MOVES ARE ALLOWED

change

into



LET'S PLAY - SUDOKU

5	3	4					9	
	9			6				
6	2		4				8	5
			6	1				
2		9	7		4	6		1
				5	2			
1	4				7		6	9
				9			7	
	7					1	2	3

Numbrix

Fill the grid with the numbers 1 to 43 in such that they make a path of consecutive numbers in sequence. You can move horizontally or vertically, but not diagonally.

					5	
	32					
36		30	1	10		8
					14	
38	43		25			
	42	23			20	17