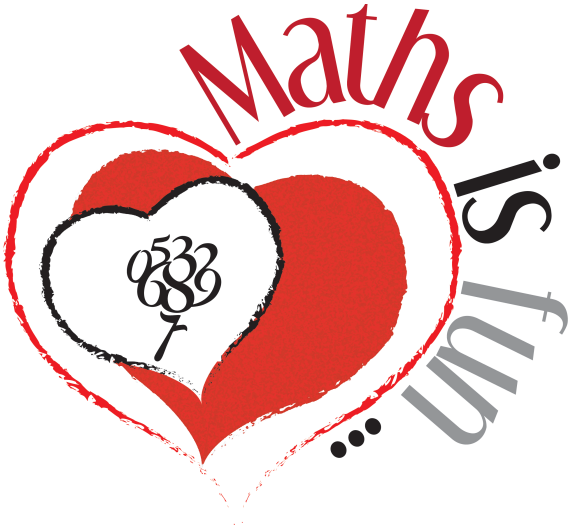
Multiplication and Division (Foundation Phase)



My Homework Book (4)

Name:

_____

Year:

_____

School:

_____

SA NUMERACY CHAIR PROJECT

Declaration

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South African Numeracy Chair Project
Grahamstown, South Africa **www.ru.ac.za/sanc**

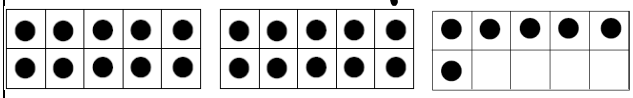
MULTIPLICATION

MULTIPLICATION WITH 10-FRAMES

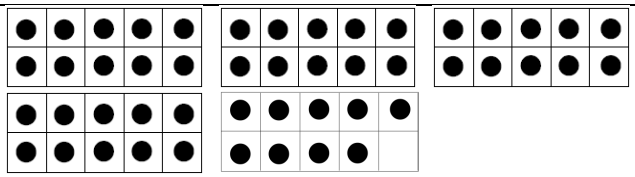
Work out how many and then write a multiplication sum underneath.

Work out how many altgoether. Write a sum below.

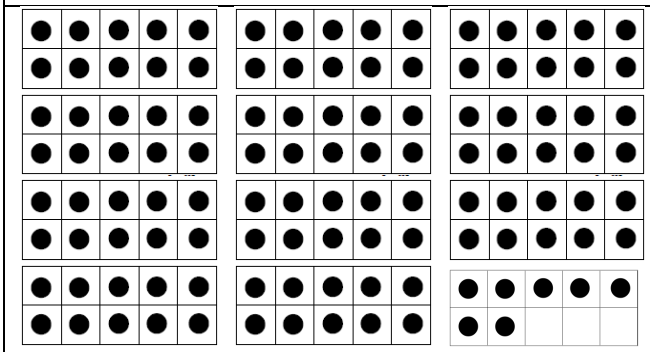
Example



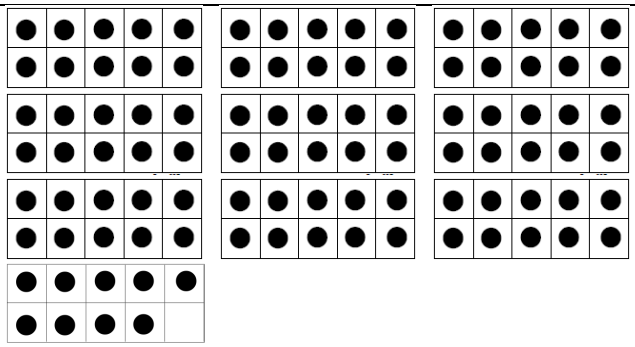
2 x 10 + 6 = 26



___ x 10 + ___ =

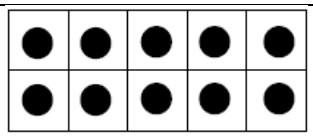


___ x 10 + ___ =

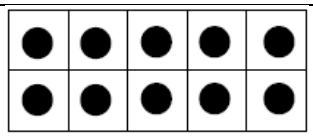


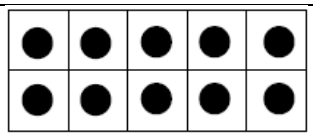
___ x 10 + ___ =

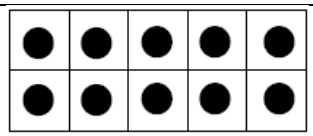
How many?

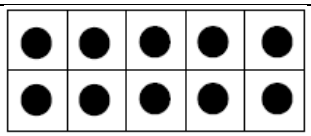
4 x 

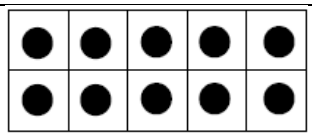
Example: 4 x 10 dots = 40

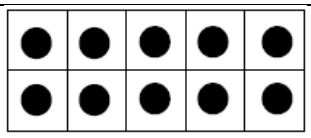
5 x 

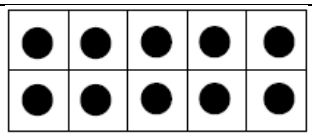
5 x 

10 x 

 x 2

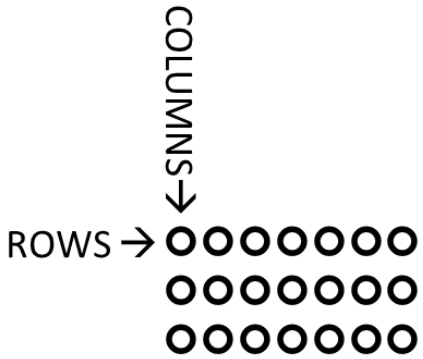
 x 3

 x 6

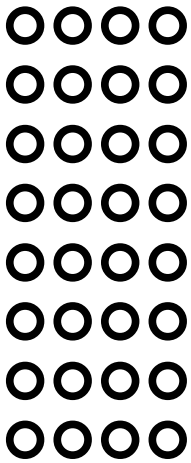
 x 4

MULTIPLICATION ARRAYS (1)

Example

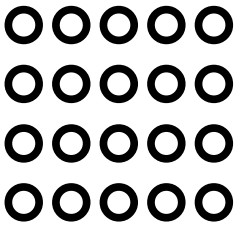


How many? 21
I see
7 columns of 3 OR 3 rows of 7
Write a multiplication sum:
7 x 3 = 21 OR 3 x 7 = 21



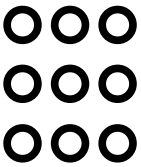
How many?
I see

Write a multiplication sum



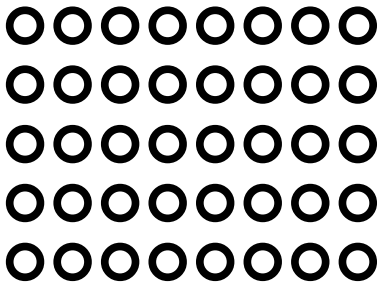
How many?
I see

Write a multiplication sum



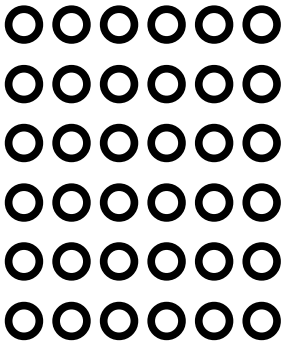
How many?
I see

Write a multiplication sum



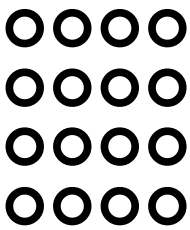
How many?
I see

Write a multiplication sum



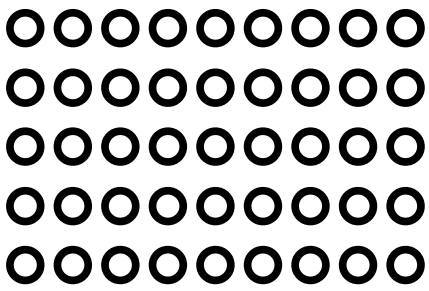
How many?
I see

Write a multiplication sum



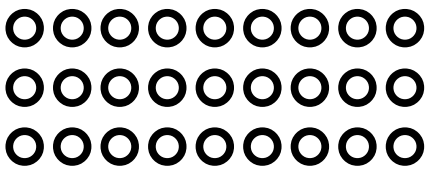
How many?
I see

Write a multiplication sum



How many?
I see

Write a multiplication sum



How many?
I see

Write a multiplication sum

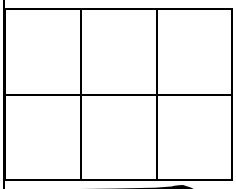
HOW MANY SQUARES?

Example

Say how you see it:

I see **2** rows of **3** squares

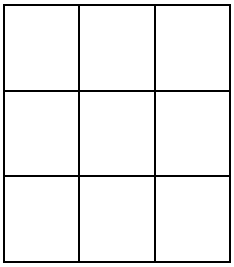
I see **3** columns of **2** squares



Circle the sums that describe this array?

(2 x 3 =) 3 + 3 + 3 =

3 x 3 = (3 x 2 =)



Circle the sums that describe this array?

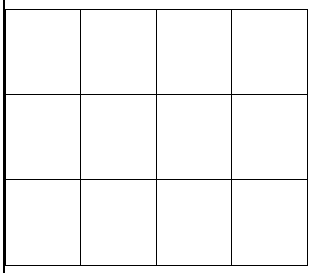
3 x 4 = 3 + 3 + 3 =

3 x 3 = 3 + 3 =

Say how you see it:

I see ____ rows of ____ squares

I see ____ columns of ____ squares



Circle the sums that describe this array?

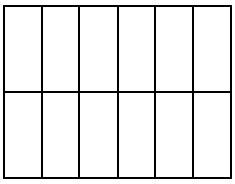
3 x 4 = 3 + 3 + 3 =

4 + 3 = 3 + 3 + 3 + 3 =

Say how you see it:

I see ____ rows of ____ rectangles

I see ____ columns of ____ rectangles



Circle the sums that describe this array?

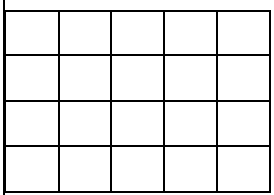
2 x 6 = 6 x 2 =

6 + 6 = 6 + 6 + 6 =

Say how you see it:

I see ____ rows of ____ rectangles

I see ____ columns of ____ rectangles



Circle the sums that describe this array?

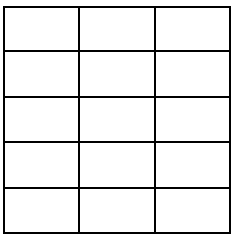
5 x 4 = 5 + 5 + 5 + 5 =

4 + 5 = 5 + 5 =

Say how you see it:

I see ____ rows of ____ rectangles

I see ____ columns of ____ rectangles



Circle the sums that describe this array?

5 x 4 = 3 + 3 =

3 x 3 = 3 + 3 + 3 + 3 + 3=

TIMES TABLE PRACTICE (2, 3, 5 AND 10 X TABLES)

4 x 2 = ____	6 x 5 = ____	8 x 3 = ____
6 x 2 = ____	4 x 5 = ____	4 x 2 = ____
9 x 2 = ____	5 x 5 = ____	6 x 2 = ____
7 x 2 = ____	8 x 5 = ____	9 x 10 = ____
5 x 2 = ____	10 x 5 = ____	4 x 5 = ____
2 x 2 = ____	7 x 5 = ____	2 x 10 = ____
10 x 2 = ____	9 x 5 = ____	7 x 5 = ____
4 x 3 = ____	10 x 10 = ____	7 x 2 = ____
8 x 3 = ____	6 x 10 = ____	2 x 5 = ____
3 x 3 = ____	4 x 10 = ____	10 x 3 = ____
6 x 3 = ____	9 x 10 = ____	7 x 3 = ____
10 x 3 = ____	5 x 10 = ____	9 x 2 = ____
7 x 3 = ____	8 x 10 = ____	4 x 3 = ____

NOW PRACTICE ON THE MULTIPLICATION GRID

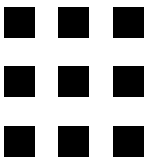
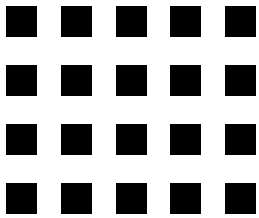
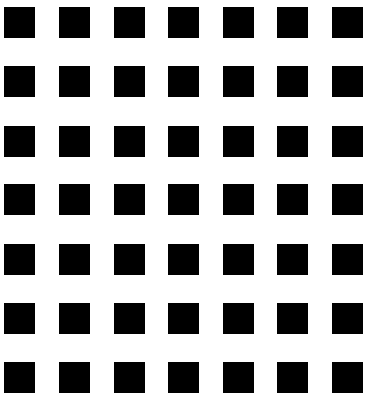
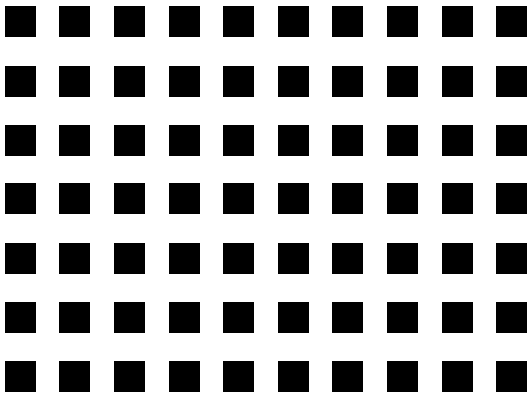
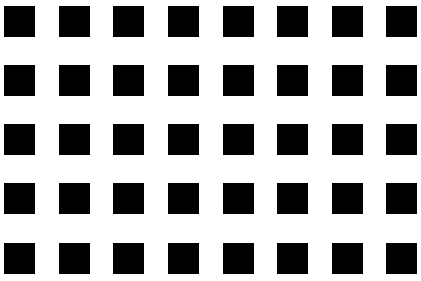
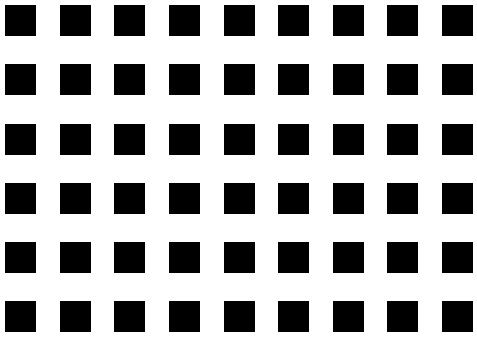
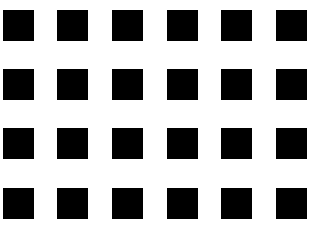
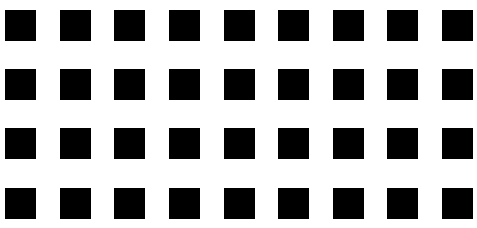
X	1	2	3	4	5	6	7	8	9	10
1		2								
2										
3				12						
4						24				40
5						30				
10		20								100

4 X 10 = 40
OR
10 X 4 = 40

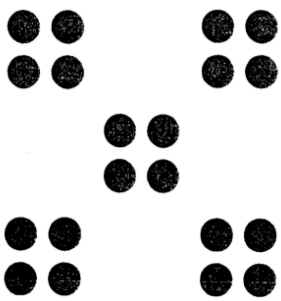
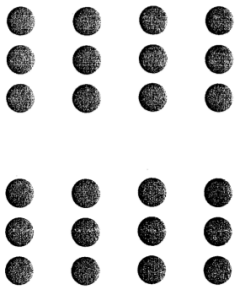
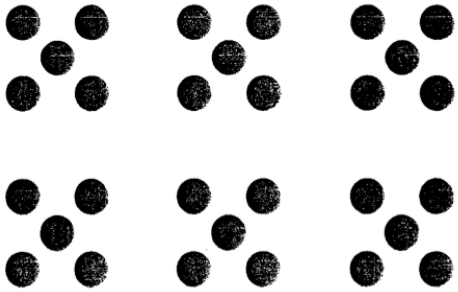
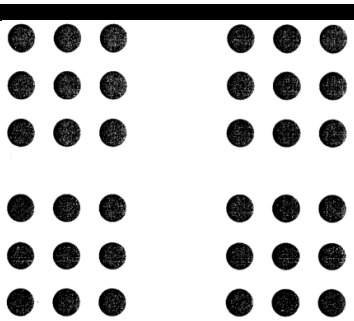
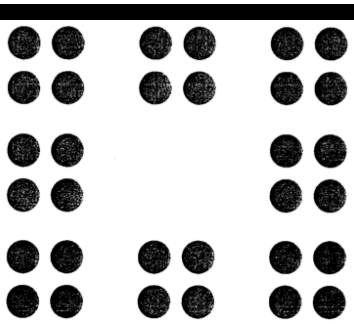
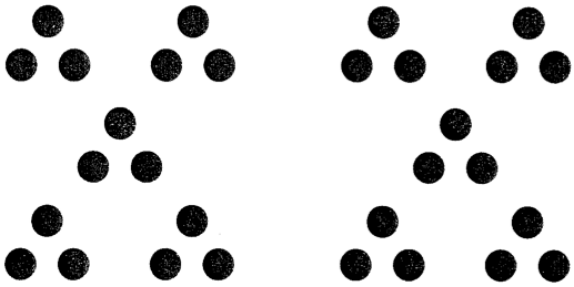
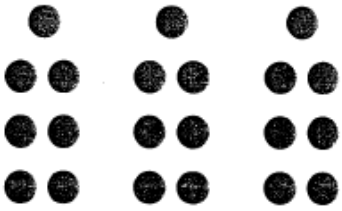
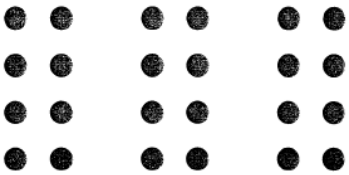
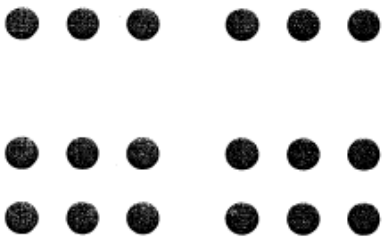
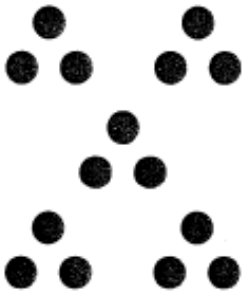
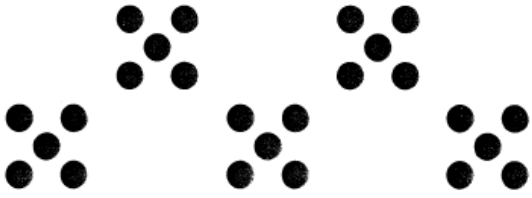
5 X 6 = 30
OR
6 X 5 = 30

MULTIPLICATION ARRAYS (2)

Work out how many and then write a multiplication sum.

Example  How many? 9 Write a sum: 3 x 3 = 9	 How many? Write a sum:
 How many? Write a sum:	 How many? Write a sum:
 How many? Write a sum:	 How many? Write a sum:
 How many? Write a sum:	 How many? Write a sum:

DOT MULTIPLICATION

Example  How many? 20 I see 5 groups of 4 Write a sum: 5 x 4 = 20	 How many? I see Write a sum:	 How many? I see Write a sum:
 How many? I see Write a sum:	 How many? I see Write a sum:	 How many? I see Write a sum:
 How many? I see Write a sum:	 How many? I see Write a sum:	 How many? I see Write a sum:
  How many? I see Write a sum:		 How many? I see Write a sum:

QUICK MULTIPLES

Multiply each number by 1, by 10 and by 100

3	X 1	3	6	X 1		12	X 1	
	X 10	30		X 10			X 10	
	X 100	300		X 100			X 100	
4	X 1		8	X 1		16	X 1	
	X 10			X 10			X 10	
	X 100			X 100			X 100	
5	X 1		10	X 1		15	X 1	
	X 10			X 10			X 10	
	X 100			X 100			X 100	
2	X 1		4	X 1		8	X 1	
	X 10			X 10			X 10	
	X 100			X 100			X 100	
7	X 1		14	X 1		21	X 1	
	X 10			X 10			X 10	
	X 100			X 100			X 100	

Say what you notice when you do this?

Now do these quick multiplication grids

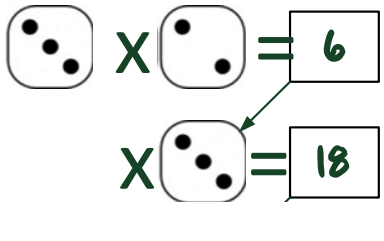
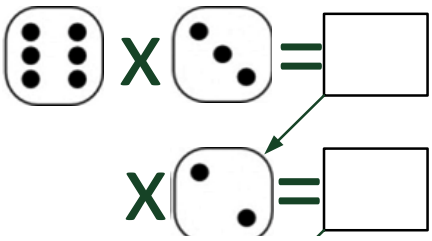
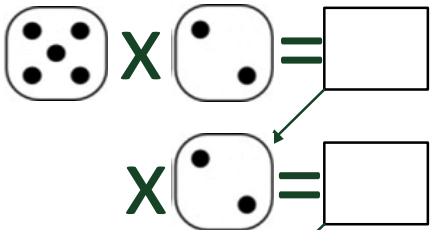
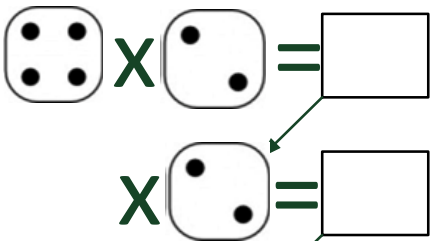
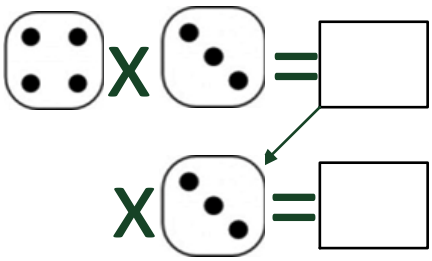
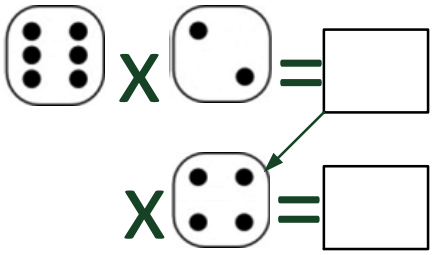
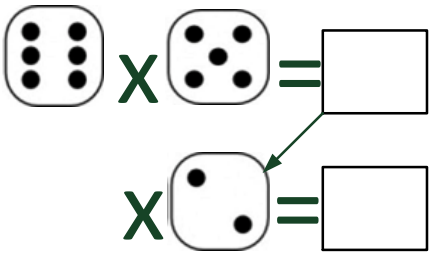
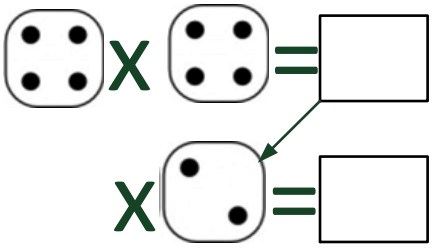
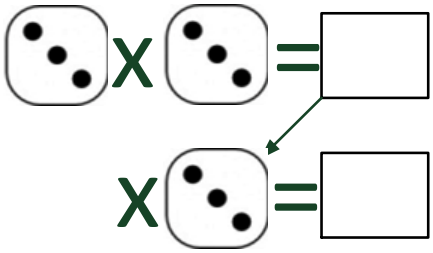
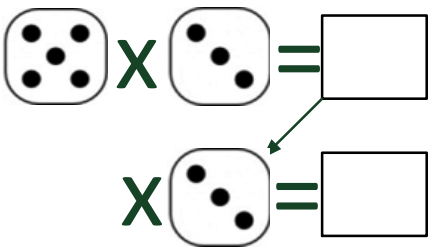
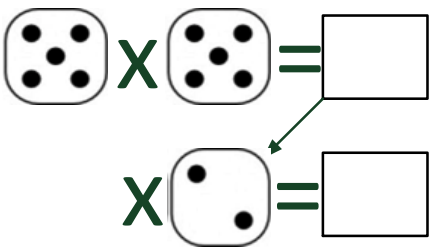
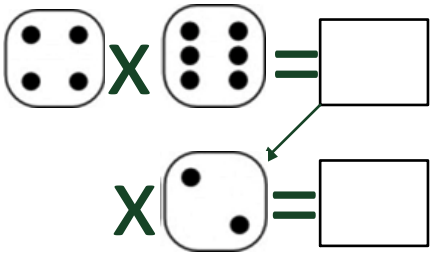
x	5	3	2
10		30	
20			

x	3	5	4
15	60		
25			

x	4	5	2
5			
2		10	

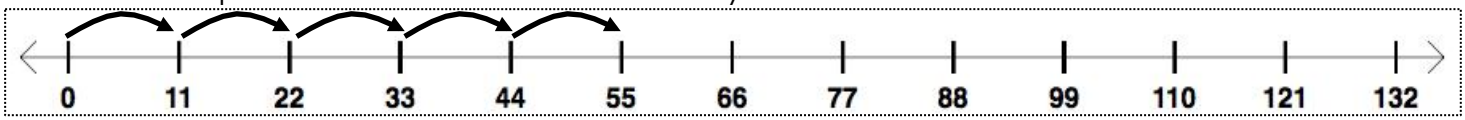
MULTIPLY THE DOTS

Multiply the dots on the dice and write the answer. Then write the sums.

Example  2 x 3 = 6 6 x 3 = 18		
		
		
		

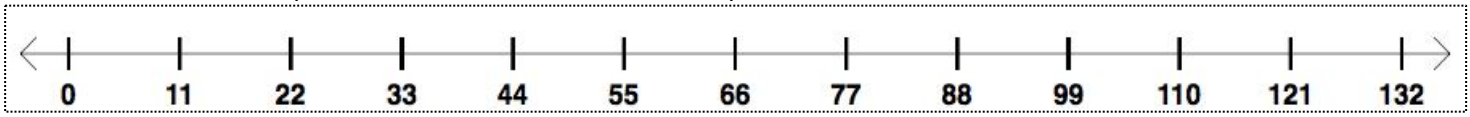
NUMBER LINE MULTIPLICATION

Count in 11s up to **55**. Draw arrows as you count.



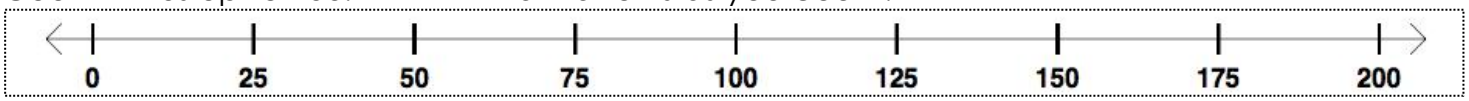
Example: 11 + 11 + 11 + 11 + 11 = **55** **5** x 11 = 55

Now count in 11s up to **99**. Draw arrows as you count.



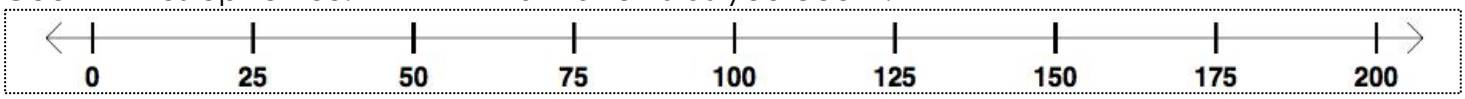
11 + 11 + 11 + 11 + 11 + 11 + 11 + 11 + 11 = ____ ____ x 11 = 99

Count in 25s up to **150**. Draw arrows as you count.



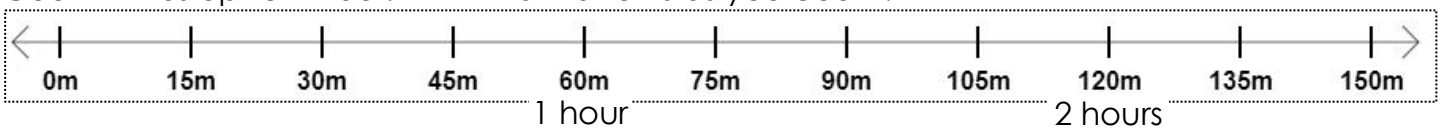
25 + 25 + 25 + 25 + 25 + 25 = ____ ____ x 25 = 150

Count in 25s up to **200**. Draw arrows as you count.



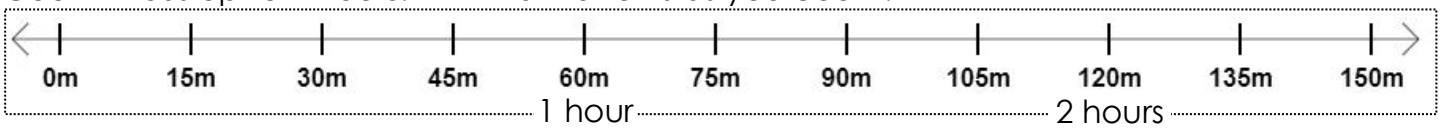
Write 2 sums

Count in 15s up to **1 hour.** Draw arrows as you count.



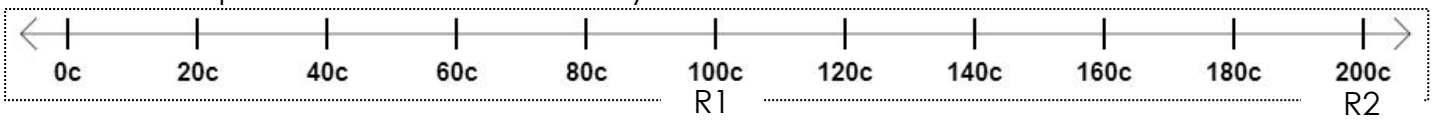
15m + 15m +15m + 15m = ____ ____ x 15m = 60m

Count in 30s up to **2 hours**. Draw arrows as you count.



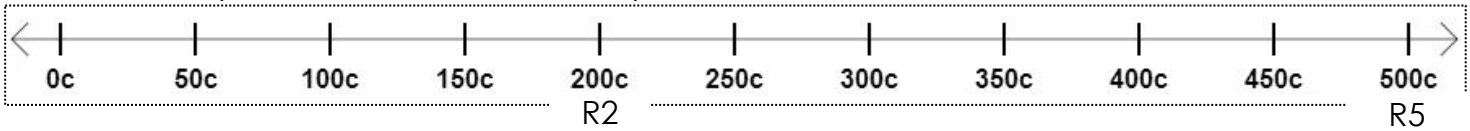
Write 2 sums

Count in 20s up to **R2**. Draw arrows as you count.



Write 2 sums

Count in 50s up to **R5.** Draw arrows as you count.

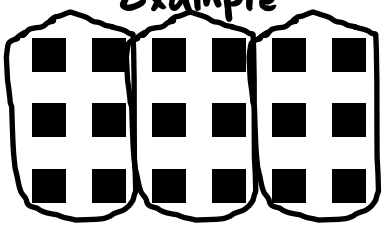
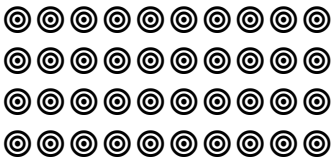
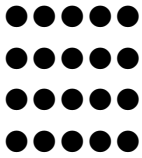
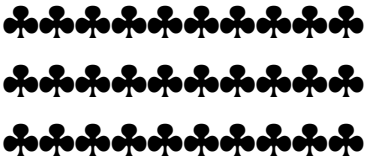
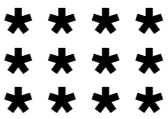
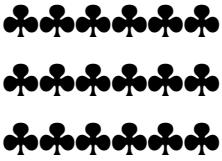


Write 2 sums

DIVISION

SHARING ARRAYS (1)

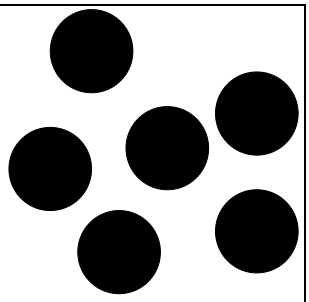
Write division sums

Example  Make groups of 6 Show how you divide the shapes I see 3 groups of 6 How many? 18 Write a sum: 18 ÷ 3 = 6	 Make groups of 10 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:	 Make groups of 5 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:
 Make groups of 5 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:	 Make groups of 9 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:	 Make groups of 10 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:
 Make groups of 6 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:	 Make groups of 3 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:	 Make groups of 6 Show how you divide the shapes I see ___ groups of ___ How many? Write a sum:

DIVIDING AS SHARING

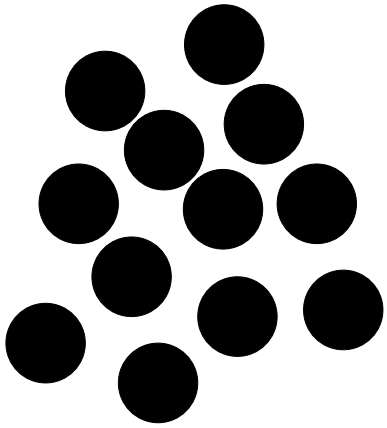
Here are 6 counters

There are 2 friends. Each friend gets half of the counters. How many will each friend get?



Now divide between 3 friends. How many will each friend get?

Here are 12 counters

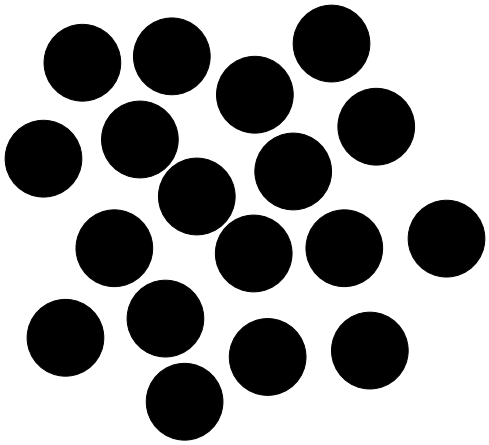


Divide them between 2 friends. How many will each friend get?

Now divide between 3 friends. How many will each friend get?

Now divide between 4 friends. How many will each friend get?

How many counters are here?



Divide them between 2 friends. How many will each friend get?

Now divide between 3 friends. How many will each friend get?

Now divide between 6 friends. How many will each friend get?

HALVING

Halve these numbers as quickly as you can.

What do you notice about your answers?

6	3	8		50		100	
60		80		500		1000	
4		12		40	20	90	
40		120		500		900	
10		14		16		18	
100		140		160		180	
20		22		24		26	
200		220		240		260	

DIVIDE BY 2

Divide these numbers by 2.

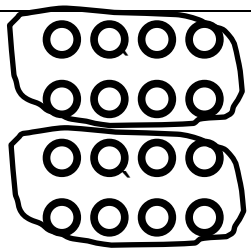
What do you notice about these answers and the ones you halved?

6	3	8		50		100	
60		80		500		1000	
4		12		40	20	90	
40		120		500		900	
10		14		16		18	
100		140		160		180	
20		22		24		26	
200		220		240		260	

SHARING ARRAYS (2)

Show how you divide the circles and squares

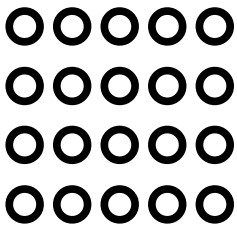
Example



Divide by 2

How many?

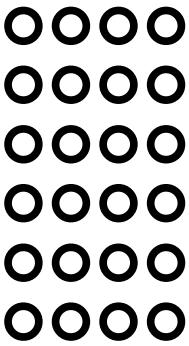
16 ÷ 2 = 8



Divide by 2

How many?

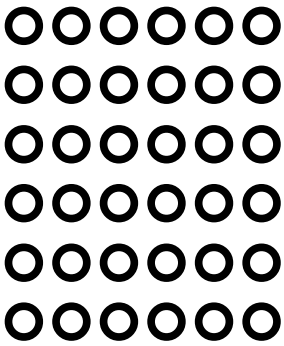
____ ÷ ____ = ____



Divide by 2

How many?

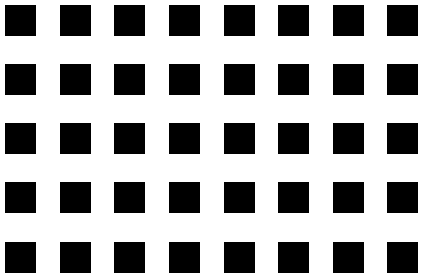
____ ÷ ____ = ____



Divide by 3

How many?

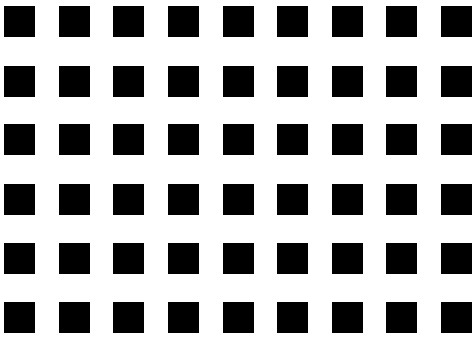
____ ÷ ____ = ____



Divide by 4

How many?

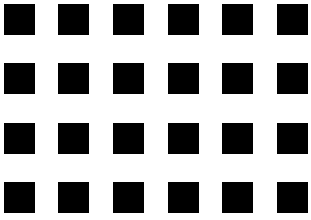
Write a sum



Divide by 3

How many?

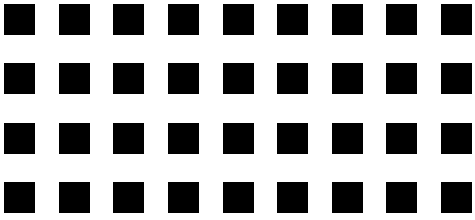
Write a sum



Divide by 3

How many?

Write a sum



Divide by 4

How many?

Write a sum