


# Year 4 Number Knowledge – Summer 1

Each term, your child will focus on two areas to help them with their understanding of number. We would like you to choose one of the following activities to complete at home each week.

Counting: *Speed recall*

Multiplication tables and related division facts: *Using factor pairs in mental calculation*



Play on TTRockstars.  
<https://trockstars.com/>

If you are having problems logging in, please speak to us and we can help.

Time yourself completing each column.		
$2 \times 2 =$	$3 \times 2 =$	$2 \times 8 =$
$4 \times 2 =$	$8 \times 2 =$	$6 \times 2 =$
$7 \times 2 =$	$2 \times 12 =$	$11 \times 2 =$
$2 \times 3 =$	$2 \times 6 =$	$2 \times 4 =$
$10 \times 2 =$	$2 \times 2 =$	$2 \times 5 =$
$2 \times 0 =$	$5 \times 2 =$	$12 \times 2 =$
$5 \times 2 =$	$2 \times 10 =$	$1 \times 2 =$
$11 \times 2 =$	$0 \times 2 =$	$7 \times 2 =$
$2 \times 1 =$	$2 \times 9 =$	$2 \times 10 =$
$9 \times 2 =$	$2 \times 7 =$	$3 \times 2 =$
Time:	Time:	Time:

Fill in the missing numbers.

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

**Quick practice ideas:**

Ask a family member or friend to quiz you – how many can you get correct in 1 minute?

Count in multiples of a times table you find tricky as you walk up the stairs (e.g. 7, 14, 21) – can you count backwards when you go down (e.g. 84, 77, 70)?

Put times tables facts that you find tricky around the house and every time you go past it, say it out loud 5 times

### Multiplication strategies

There are 24 swimmers in each squad.  
How many swimmers in six squads?

The calculation is  $6 \times 24 =$   
To work this out quickly, I am going to use my knowledge of factor pairs. I know that  $12 \times 2 = 24$  so I can replace 24 with  $12 \times 2$ :  
 $6 \times 12 \times 2 =$

$6 \times 24 = 6 \times \boxed{24}$

$6 \times 12 \times 2 = 6 \times \boxed{12} \times \boxed{2}$

$6 \times 12 = 72$   
 $72 \times 2 = 144$

Calculate the answers:

$7 \times 18 = 7 \times 9 \times 2 =$  \_\_\_\_\_

$22 \times 4 = 2 \times 11 \times 4 =$  \_\_\_\_\_

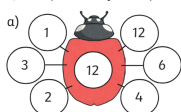
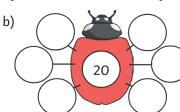
$8 \times 24 = 8 \times 12 \times 2 =$  \_\_\_\_\_

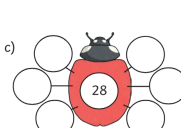
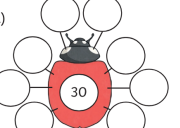
$5 \times 21 = 5 \times 7 \times 3 =$  \_\_\_\_\_

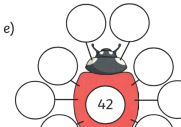
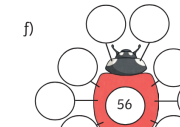
$24 \times 7 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $=$  \_\_\_\_\_

$3 \times 16 =$  \_\_\_\_\_  $\times$  \_\_\_\_\_  $=$  \_\_\_\_\_

1) Complete the factor pairs. The first one has been done for you.

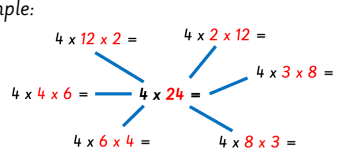
a)  b) 

c)  d) 

e)  f) 

Often, there is more than one factor pair you could use to calculate the answer. Use a spider diagram to list the different options and then choose one to use to find the answer.

Example:



$7 \times 18 =$  \_\_\_\_\_  
 $5 \times 32 =$  \_\_\_\_\_  
 $6 \times 16 =$  \_\_\_\_\_