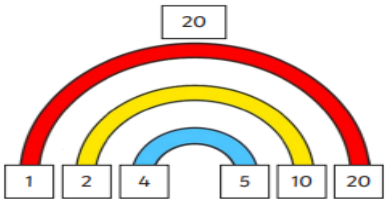
Year 5 Multiplication and Division Vocabulary

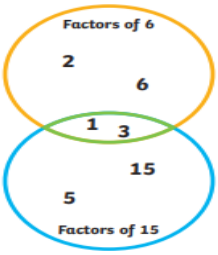
Odd, even	Array, row, column
Count in twos, threes, fives	Double, halve
Count in tens (forwards from/backwards from)	Share, share equally
How many times?	Group in pairs, threes, etc.
Lots of, groups of	Equal groups of
Once, twice, three times, five times	Divide, divided by, left, left over
Repeated addition	Multiples of four, eight, fifty and one hundred
Product	Scale up
Inverse	Derive
Division facts	Multiplication facts (up to 12x12)
Composite numbers, prime number, prime factors,	square number, cubed number
Factor pairs	Formal written method

Factors

A factor is a number that divides into another number exactly, without leaving a remainder.



A common factor is a factor of 2 or more numbers.



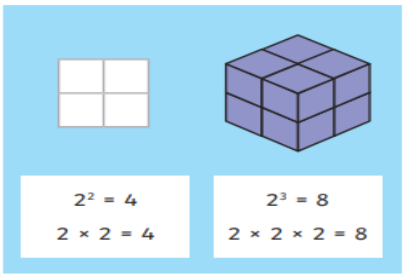
The factors of 20 are 1, 2, 4, 5, 10 and 20.

The factor pairs are:
1 and 20
2 and 10
4 and 5

Prime Numbers

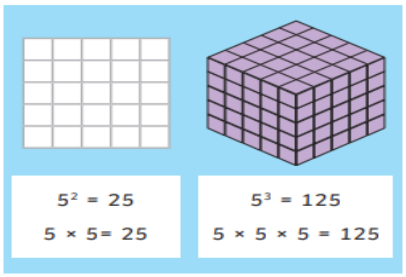
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Squared² and Cubed³ Numbers



$2^2 = 4$
$2 \times 2 = 4$

$2^3 = 8$
$2 \times 2 \times 2 = 8$



$5^2 = 25$
$5 \times 5 = 25$

$5^3 = 125$
$5 \times 5 \times 5 = 125$

Related Calculations

$8 \times 9 = 72$
$80 \times 9 = 720$

$9 \times 8 = 72$
$90 \times 8 = 720$

$72 \div 9 = 8$
$720 \div 9 = 80$

$72 \div 8 = 9$
$720 \div 8 = 90$

Short Multiplication

$2543 \times 7 = 17\,801$

	2	5	4	3
×				7
1	**7**	**8**	**0**	**1**
1	3	3	(2)	

Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.

Long Multiplication

$2543 \times 67 = 170\,381$

		2	5	4	3
	×			6	7
	1 1	7 3	8 3	0 2	1
1 1	5 3	2 2	5 1	8	0
1	**7**	**0**	**3**	**8**	**1**
	1	1			

Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

Division

$136 \div 4 = 34$

		3	4	
4	1	3	6	
−	1	2	0	→ 30 × 4
		1	6	
	−	1	6	→ 4 × 4
			0	

Short Division

		3	8
4	1	1 5	(3) 2

15 ÷ 4 = 3 remainder 3

Remember to regroup any remainders and move them into the next column.

		4	5	5	r	3
5	2	2	2 7	2 8		

28 ÷ 5 = 5 remainder 3

If your calculation has a remainder, remember to record it in the answer using the letter r.