Year 4: Maths – Area

Loving Learning
Living Laughing
Together in Faith

Vocabulary

- area
- perimeter
- centimetres
- metres
- squares
- distance
- millimetres
- kilometres
- length
- width
- rectilinear
- right angle

Area and Perimeter

Area is the amount of space inside a 2D shape.

Perimeter is the total **distance** around the outside of a 2D shape.



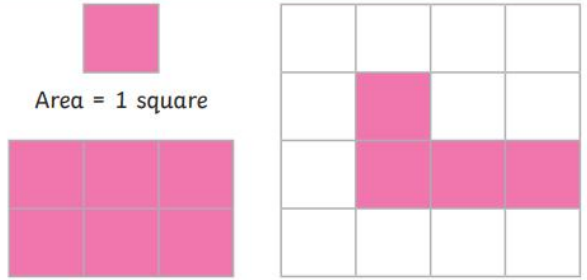
Units of Measure for Perimeter

km	1 **kilometre** = 1000 **metres**
m	1 **metre** = 100 **centimetres**
cm	1 **centimetre** = 10 **millimetres**
mm	



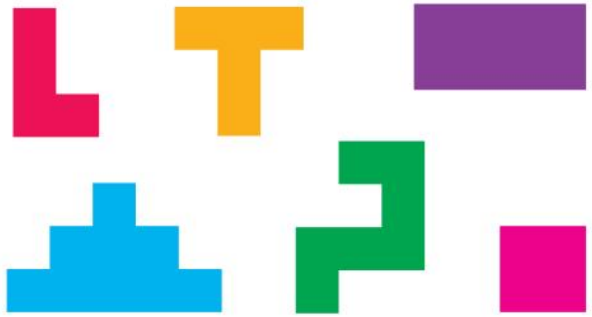
Measuring Area

We can count **squares** to find the **area** of a **rectilinear** shape.



Rectilinear Figures

A **rectilinear** figure is a 2D shape whose sides all meet at **right angles** (90°).



Year 4: Maths – Multiplication and Division

Loving Learning
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Vocabulary

- multiply
- groups of
- lots of
- times
- divide
- share
- remainder
- factor
- multiple
- product

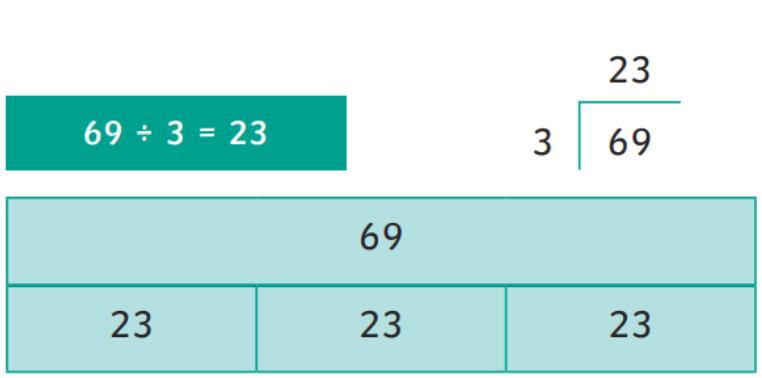
Th	H	T	O	
	5	4	3	
×			4	
		1	2	(4 × 3)
	1	6	0	(4 × 40)
2	0	0	0	(4 × 500)
2	1	7	2	

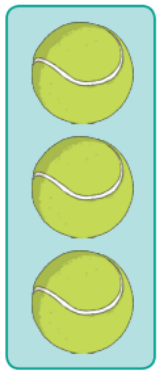
Th	H	T	O
	5	4	3
×			4
2	1	7	2
	1	1	

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

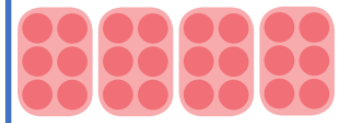
69 ÷ 3 = 23

$$3\overline{)69} = 23$$

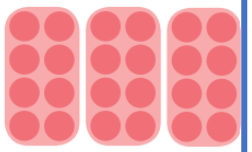




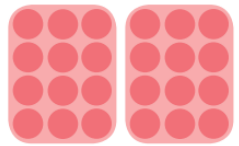
(2 × 3) × 4 = 24

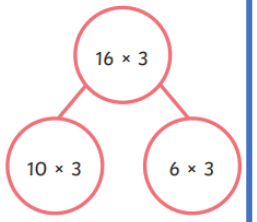


(2 × 4) × 3 = 24



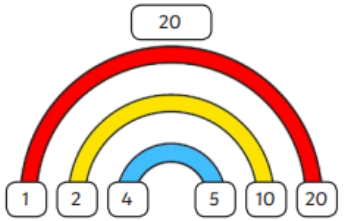
(3 × 4) × 2 = 24





30 + 18 = 48

Factor pairs and Commutativity



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

5 × 4 = 20



4 × 5 = 20



Multiply Using Formal Written Methods

Th	H	T	O	
	5	4	3	
×			4	
		1	2	(4 × 3)
	1	6	0	(4 × 40)
2	0	0	0	(4 × 500)
2	1	7	2	

Th	H	T	O
	5	4	3
×			4
2	1	7	2
	1	1	

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

Year 4: Maths – Multiplication and Division

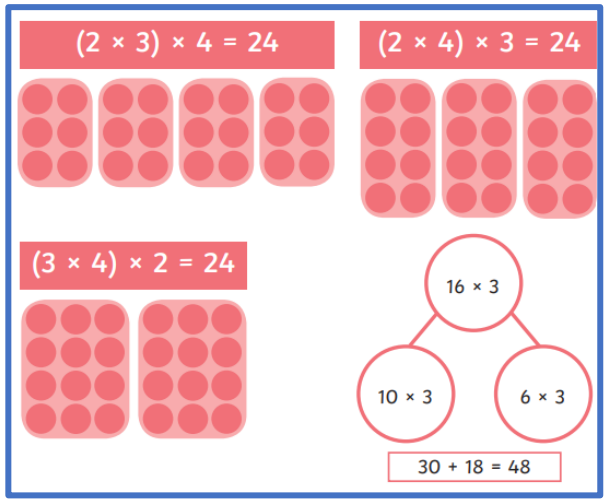
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Vocabulary

- multiply
- groups of
- lots of
- times
- divide
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- remainder
- factor
- multiple
- product

Multiplication and Division Facts

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

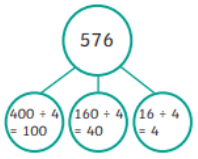


Short Division with Exact Answers

576 ÷ 4 = 144

Hundreds	Tens	Ones
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1

There are 69 tennis balls packed in tubes of 3.



23
3 | 69

69 ÷ 3 = 23

69		
23	23	23

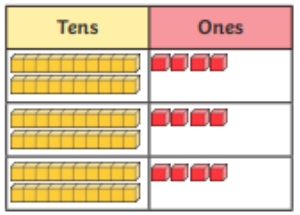


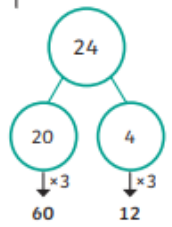
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Multiply Using Informal and Formal Methods

10 × 3 = 30 | 10 × 3 = 30 | 4 × 3 = 12

24 × 3 = 60 + 12 = 72





Th	H	T	O
	5	4	3
×			4
2	1	7	2
	1	1	