

M	HTh	TTh	Th	100s	10s	1s	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
					1	3	6		
				1	3	6			
		1	3	6	0	0			
						1	3	6	
						0	1	3	6

Ten times greater

Ten times smaller

Converting units by multiplying and dividing by 10, 100 and 1000

136×10
move digits 1 place left
 136×1000
move digits 3 places left

$136 \div 10$
move digits 1 place right
 $136 \div 100$
move digits 2 places right

1m = 100 cm
 $136 \times 100 = 13600$
so 13.6m = 1360cm

1km = 1000 m
 $13.6 \times 1000 = 13600$
so 13.6km = 13,600m

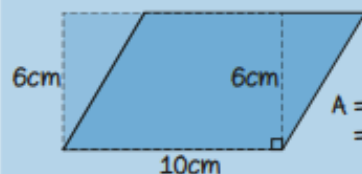
1l = 1000 ml
 $13600 \div 1000 = 13.6$
so 13,600ml = 13.6litres

1cm = 10 mm
 $136 \times 10 = 1360$
so 13.6cm = 136mm

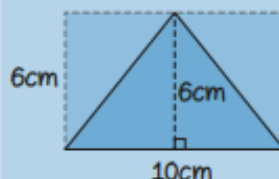
When converting from a larger unit to a smaller unit, multiply because there will be more of them.

1kg = 1000 g
 $1360 \div 1000 = 1.36$
so 1360g = 1.36kg

Area of a parallelogram = base x perpendicular height

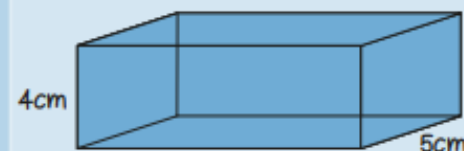


Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{perpendicular height}$



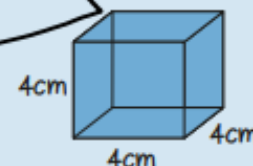
$A = \frac{1}{2} \times 10 \times 6 = 30\text{cm}^2$
 $A = 10 \times 6 \div 2 = 30\text{cm}^2$

Volume of a cuboid = length x width x height



$V = 12 \times 5 \times 4 = 12 \times 20 = 240\text{cm}^3$

convert perpendicular area squared volume cubed



$V = 4 \times 4 \times 4 = 16 \times 4 = 64\text{cm}^3$

Year 6



3 green for every 2 yellow



green	yellow	total
3	2	5
6	4	10
9	6	15

Colin and Coco share £60
Coco gets 3 x more than Colin.



so 1 part = $60 \div 4 = 15$
So Colin gets £15
and Coco gets $15 \times 3 = £45$

Scale factor 3



$$a + a = 2a$$

$$a \times a = a^2$$

If $a = 3$
 $2a = 2 \times 3 = 6$
 $a^2 = 3 \times 3 = 9$

Buying a mug costs £8 for the mug plus £4 per colour.
How much would it cost to get a mug with 3 colours?
 $£8 + 4 \times 3 = £20$

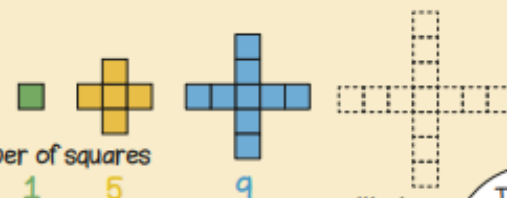
$$a + b = 6$$

If $a = 0$ then $b = 6$

$a = 1$	$b = 5$
$a = 2$	$b = 4$
$a = 3$	$b = 3$
$a = 4$	$b = 2$
$a = 5$	$b = 1$
$a = 6$	$b = 0$



variable unknown term linear sequence formula



Number of squares

1	5	9	...
✓	✓	✓	...
+4	+4	+4	...

The next term in the linear sequence is $9 + 4 = 13$

