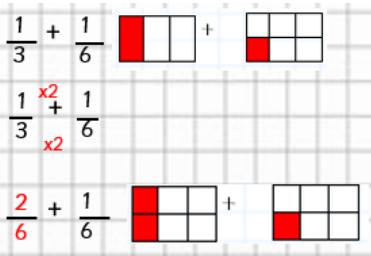
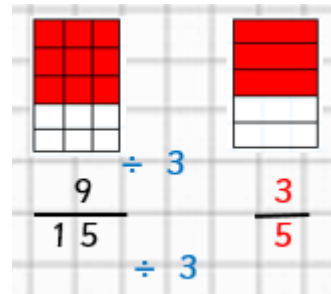


Adding, subtracting, multiplying and dividing fractions

$$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12}$$


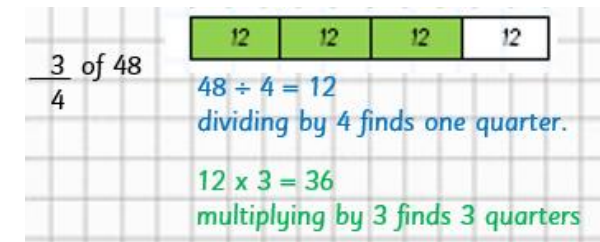
Simplifying fractions



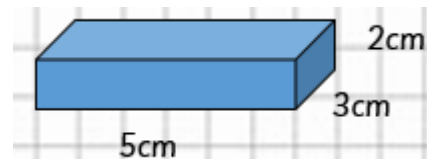
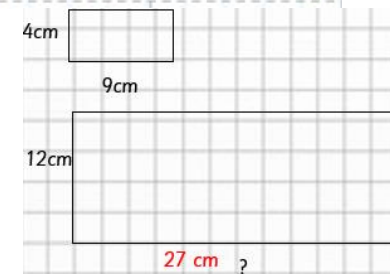
Using scale factors

2 people	1 person	5 people
6 eggs	$6 \div 2 = 3$ eggs	$3 \times 5 = 15$ eggs
100g flour	$100 \div 2 = 50$ g	$50 \times 5 = 250$ g

Finding a fraction or a percentage of a number



Calculating volume



Using algebraic rules

1st term:	$5 \times 1 - 4 = 1$
2nd term:	$5 \times 2 - 4 = 6$
3rd term:	$5 \times 3 - 4 = 11$
4th term:	$5 \times 4 - 4 = 16$
5th term:	$5 \times 5 - 4 = 21$

Using known facts

If $3 \times 2 = 6$, then
 $3 \times 20 = 60$
 $30 \times 2 = 60$
 $30 \times 20 = 600$

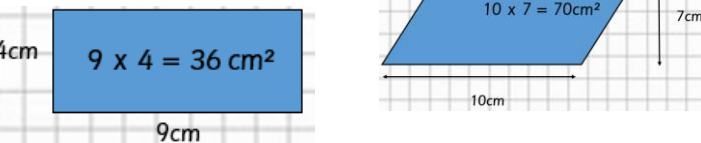
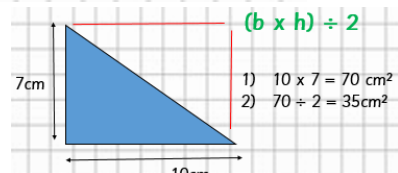
Calculating ratio

A prize is shared in a ratio of 3 : 4 between Jamie and Dan. If Jamie gets £21, how much will Dan get?

Jamie : Dan
 $3 : 4$
 $21 : ?$

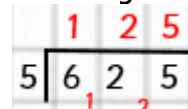
Calculation: $21 \div 3 = 7$, $7 \times 4 = 28$

Finding the area of rectangles, triangles and parallelograms.

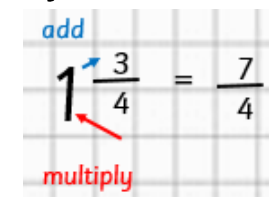


Why are times tables useful?

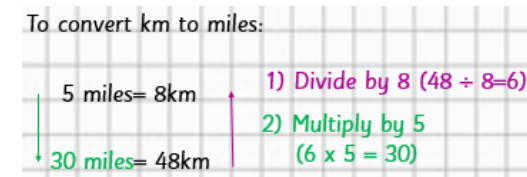
Short and long division



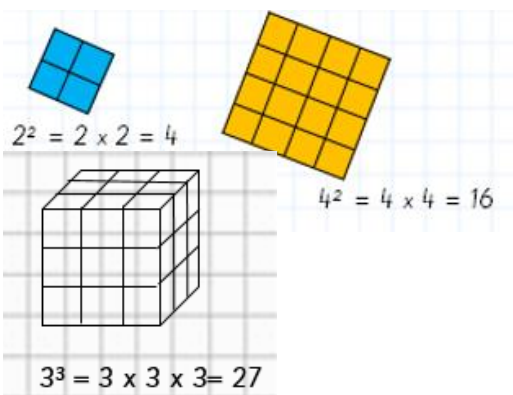
Converting between mixed and improper fractions



Convert between miles and kilometres



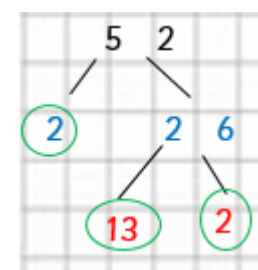
Square and cube numbers



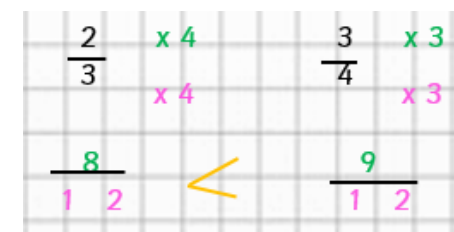
Factors and common factors

4	8	3	6
1 x 4	8	1 x 3	6
2 x 2	4	2 x 1	8
3 x 1	6	3 x 1	2
4 x 1	2	4 x 1	9
6 x 1	8	6 x 1	6

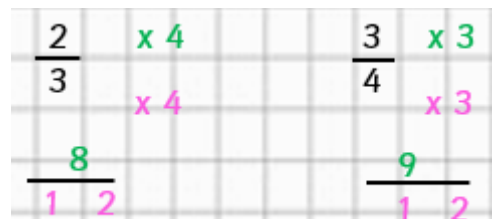
Finding prime factors



Ordering and comparing fractions



Finding equivalent fractions



Identifying prime and composite numbers

A prime number is a whole number greater than 1 with no divisors except 1 and itself.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Multiples and common multiples

Multiples of 3: 3, 6, 9, 12, 18, 21, 24
 Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32

Short and long multiplication

