



**Love Maths Facts**  
**Year 6 Summer 1**

Know times tables up to x12 and use them to solve related division problems

e.g.  $5 \times 12 = 60$ ;  $12 \times 5 = 60$ ; 60 divided by  $5 = 12$ ; 60 divided by  $12 = 5$   
Also use these to derive other calculations such as  $70 \times 30$  or  $360 \div 9$

Use a range of vocabulary for each of the four operations  
e.g. multiply, times, the product of, divide, the quotient of

Multiply and divide (including decimal) numbers  
by 10, 100 and 1000

e.g. $35 \times 10 = 350$	$35$ divided by $10 = 3.5$
$35 \times 100 = 3,500$	$35$ divided by $100 = 0.35$
$35 \times 1000 = 35,000$	$35$ divided by $1,000 = 0.035$

Choose a 2-digit number and find all the factors of it.  
e.g. factors of 48 = 1 and 48, 2 and 24, 3 and 16, 4 and 12, 6 and 8

Create a fraction and then see if you can simplify it using the highest common factors.

Can you order a set of fractions which have different denominators using equivalent fractions or common denominators?

Can you recall equivalent decimal and proper fractions with their percentage equivalents too?

Can you find simple percentages using hundredths or using equivalent fractions to help you?

What do the terms translate, reflect, lines of symmetry mean?

Take a coordinate sheet home from class. Can you plot coordinates and translate and reflect shapes on the grid?

Can you find missing angles in triangles or straight lines and angles about a point (in a circle)?

(angles inside a triangle always total 180 degrees)

Recognise and name 4, 5, 6, 7 & 8 sided shapes-4 sided=square, rectangle, rhombus, trapezoid, parallelogram, quadrilaterals; 5 sided=pentagon; 6 sided=hexagon; 7 sided=heptagon; 8 sided=octagon

**Top Tips for Home Learning**  
**Do little and often**

Highlight the facts you already know on your times table square and remember the related facts you will know  
e.g. if you know  $5 \times 8 = 40$  you will also know  $8 \times 5 = 40$  What about  $0.8 \times 5$ ?

Roll your dice and say that multiple of the times table you are practising e.g. if you roll a 7 and you are learning 6x you would say 42 because  $7 \times 6 = 42$  and  $6 \times 7 = 42$

How many correct answers can you give in a minute?  
Practise regularly to improve your memory and the facts you will learn!

**Speed challenge!**

Shuffle 2 piles of number cards 1-12 and turn over the top card of each pile, saying what their product is as you continue to turn over the top card on each pile

How many questions can you answer correctly in 2mins?  
For a further challenge try some missing number questions

e.g.  $7 \times \underline{\quad} = 28$   
 $\underline{\quad}$  divided by  $6 = 7$   
 $0.7 \times \underline{\quad} = 4.2$   
 $\underline{\quad}$  divided by  $60 = 0.7$

Roll your dice 5-10 times and use the digits to write down a number!

Write the largest number you can make with your digits

Can you multiply/divide your number by 10, 100, 1000?

Can you round the largest number to the nearest 100 or 10?

Can you read your number correctly?

e.g. 12,345 needs to be read as 12 thousand, 3 hundred and forty five

When simplifying fractions-you need to look at the top (numerator) and bottom (denominator) numbers and think which times table they both fit into -then divide both numbers by the times table you are using e.g.  $6/12$  (both in 2x and 3x tables so you can divide by 2 or 3) so  $6/12$  simplified is  $3/6$  or a better answer would be  $1/2$

Again if you need to find a common denominator you need to use table facts e.g.  $3/5 + 4/6 = ?$  30 is the common denominator ( $5 \times 6$ )-so  $3/5 = 18/30$  and  $4/6 = 20/30$  you can now add  $18/30 + 20/30 = 38/30 = 1$  and  $8/30$  which can be simplified to 1 and  $4/15$   
(divided 8 and 30 by 2)

**Remember to practise daily on IXL.**

