



Maths Masterclass



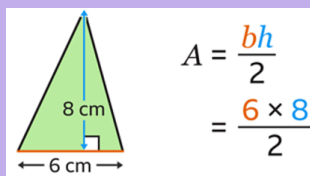
Year 6: Summer 1

Alongside the half-termly curriculum information, we will be including additional information about the Maths learning that your child will be undertaking over the coming weeks. This includes some of the methods used in school to explain how we teach Maths and make it easier to support your child with their learning. This half term will be focused on revising everything we have learnt! Have a look at these recaps, what can you remember?

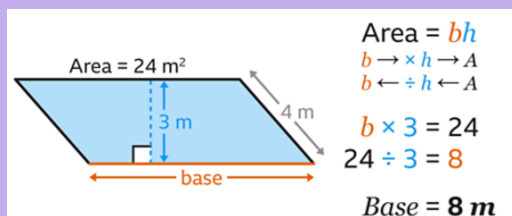
Area and perimeter

This term we will be looking at the area of triangles and parallelograms. We will also be understanding how to calculate the volumes of cuboids. We will be looking at simplifying, comparing and using the four operations with fractions.

Area of a triangle:



Area of a parallelogram:



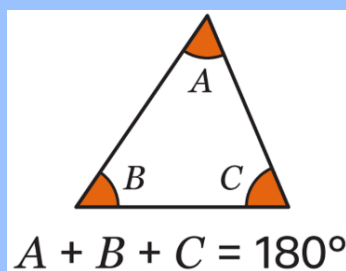
Useful websites:

BBC Bitesize— [Area of parallelograms - KS3 Maths - BBC Bitesize](#)

[Area of triangles - KS3 Maths - BBC Bitesize](#)

[Volume of cubes and cuboids - KS3 Maths - BBC Bitesize](#)

Angles in a triangle



Multiplying fractions

1. Multiply the numerators
2. Multiply the denominators
3. Simplify if you need to!

$$\text{STEP 1} \quad \frac{3}{4} \times \frac{2}{5} = \text{STEP 2} \quad \frac{3 \times 2}{4 \times 5} = \text{STEP 3} \quad \frac{6}{20} \quad \text{Simplify?}$$

Dividing fractions

1. KFC
2. Follow the multiplication steps

$$\frac{1}{2} \div \frac{1}{4} = \frac{1}{4}$$

KEEP CHANGE FLIP

$$\frac{1}{2} \times \frac{4}{1} = \frac{4}{2} = 2$$

Percentages

Calculate percentages

Remember: 'per cent' means 'out of 100'

Easy ones to remember:

50% = divide by 2

25% = divide by 4

75% = divide by 4, then multiply by 3

10% = divide by 10

5% = divide by 10, then divide by 2

1% = divide by 100

For all other multiples of 10%, divide by 10 to find 10%, then multiply by the first digit.

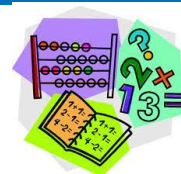
30% = divide by 10, then multiply by 3

40% = divide by 10, then multiply by 4

70% = divide by 10, then multiply by 7



Maths at Home



Ideas to try at home

We will be looking at scale factor in recipes. Could you adapt some recipes at home for different amounts of

Use scale factor- recipes
Recipe for fairy cakes- 2 people.
Complete the recipe for 8 people.

1) Work out the relationship between 2 and 8 ($\times 4$)
2) Using your scale factor, convert each value ($\times 4$)

6 eggs	($\times 4$)	24 eggs
100g flour	$\longrightarrow$	400g flour
50g butter		200g butter
80 ml milk		320 ml milk

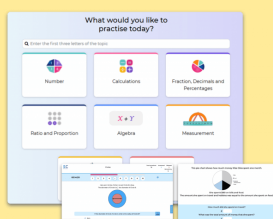
For measurements where there is not a clear scale factor, first find the amount for one serving.



Homework

Children will be set a weekly homework on the SATs Companion site. It can be accessed on tablets, laptops and phones. If your child has difficulty logging in or needs more support, please contact ask your child's teacher.

This website can also be used to watch any videos based on many topic areas. Your child does not need to wait for this to be allocated- they can log on at any time and watch if they are finding a particular area tricky.



Family challenge!



Houses Puzzle

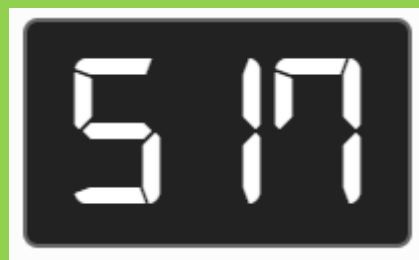
Four houses next to each other have numbers which add up to 52. What are their numbers?

Clue: Remember that house numbers are not always just consecutive. Houses on one side can be consecutive odd and on the other side consecutive even.



Please try to spend 10-15 minutes practising times tables as often as possible to support fluency. Fast recall of times tables really helps children when they solve problems and do more complex maths!

Countdown challenge!



75

2

1

10

2

7

Can you make the target number using only these number cards? You can only use them once but you can use any operation!