

Y6 Skills: Maths

Read, write, order and compare numbers to 1,000,000 including negative numbers and decimals

e.g. Round 124,531

to the nearest 10,000	
to the nearest 1,000	
to the nearest 100	

Multiply and divide up to 4 digits by a two digit whole number using long multiplication or long division (interpreting remainders)

e.g. Share £1,447 equally between 4 people (£361.75)

Use estimation and formal methods to solve multi-step problems including the order of operations

e.g. A roll of material is 8m long; how much is left when 4 pieces of 1.34m are cut from the roll?

Identify common factors, common multiples and prime numbers

e.g. Chen chooses a prime number. He multiplies it by 10 and then rounds it to the nearest hundred. His answer is 400. Write all the possible prime numbers Chen could have chosen

Recognise the relationship between fractions, decimals and percentages and can express them as equivalent quantities

Add, subtract, multiply and divide fractions and decimals, including mixed number fractions, simplifying where appropriate

e.g. $\frac{1}{3} + 2 = 6$, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$

Use ratio and proportion to solve a range of problems involving scaling up or down of shape and quantities

<i>Cream</i>	<i>400 ml</i>
<i>Milk</i>	<i>500 ml</i>
<i>Egg yolks</i>	<i>4</i>
<i>Chocolate</i>	<i>120 g</i>
<i>Sugar</i>	<i>100 g</i>

Here are the ingredients for chocolate ice cream. Stefan has only 300ml of cream to make chocolate ice cream. How much chocolate should he use?

Y6 Skills: Maths

Use and generate simple formulae and substitute values to solve problems (including using formulae to find area and volume of shape and knowing the relationship between circumference, radius and diameter).

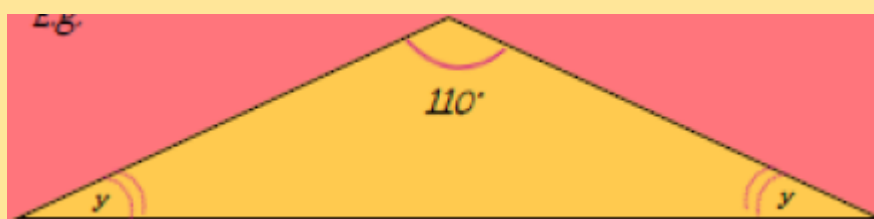
e.g. **Use:** $A = L \times W$, What is L if $A = 24$ and $W = 6$?

e.g. **Generate:** Find how many blocks would be used in 45 arches?



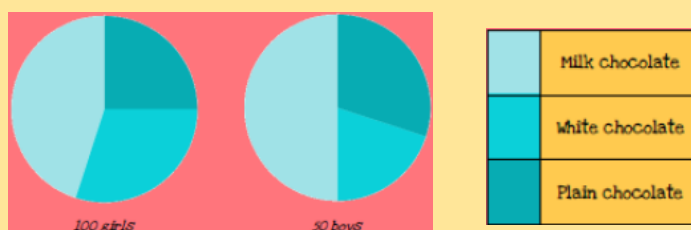
Apply knowledge of 2D and 3D shapes to solve problems, including finding missing angles, area and perimeter

e.g.



Construct, interpret and compare pie charts and line graphs and use these to solve problems.

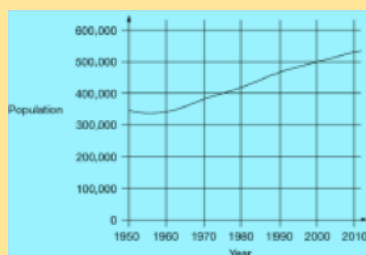
e.g. 100 girls and 50 boys were asked which kind of chocolate they like best. These two pie charts show the results.



Jamie says "The pie charts show that more girls than boys likes milk chocolate best."

Jamie is correct. Explain how you know.

e.g. This chart shows the population of Cornwall from 1950 to 2010.



In which year did the population first reach 400,000?
How much did the population increase from 1950 to 2000?
What was the population of Cornwall in 2010?